

Owner's Operating Service Instruction Manual

10¢

Model Nos.
135-430A
135-435A

- **ASSEMBLY**
- **OPERATION**
- **REPAIR PARTS**

30" RIDING MOWERS

WARRANTY

For one year from date of purchase, MTD Products Inc will replace for the original purchaser, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. All transportation charges on parts submitted for replacement under this warranty must be paid by the purchaser. This warranty does not include replacement of parts which become inoperative through misuse, excessive use, accident, neglect, improper maintenance or alterations by unauthorized persons. This warranty does not include the engine, motor, battery, battery charger or any component parts thereof. For service on these units, refer to the applicable manufacturer's warranty.

The above warranty will apply only to the original owner and will be effective only if the warranty card has been properly processed. It will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. **UNDER NO CIRCUMSTANCES WILL THE RETURN OF A COMPLETE UNIT BE ACCEPTED BY THE FACTORY UNLESS PRIOR WRITTEN PERMISSION HAS BEEN EXTENDED.**

I M P O R T A N T

SAFE OPERATION PRACTICES FOR RIDING VEHICLES

1. Know the controls and how to stop quickly—**READ THE OWNER'S MANUAL.**
2. Do not allow children to operate vehicle. Do not allow adults to operate it without proper instruction.
3. Do not carry passengers. Keep children and pets a **safe distance away.**
4. Clear work area of objects which might be picked up and thrown.
5. Disengage all attachment clutches and shift into neutral before attempting to start engine.
6. Disengage power to attachment(s) and stop engine (motor)
7. Disengage power to attachment(s) and stop engine before making any repairs or adjustments.
8. Disengage power to attachment(s) when transporting or not in use.
9. Take all possible precautions when leaving vehicle unattended such as disengaging power-take-off, lowering attachments, shifting into neutral, setting parking brake, stopping engine and removing key.
10. Do not stop or start suddenly when going uphill or downhill. Mow up and down face of steep slopes; never across the face.
11. Reduce speed on slopes and in sharp turns to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.
12. Stay alert for holes in terrain and other hidden hazards.
13. Use care when pulling loads or using heavy equipment.
 - A. Use only approved drawbar hitch points.
 - B. Limit loads to those you can safely control.
 - C. Do not turn sharply. Use care when backing.
 - D. Use counterweight(s) or wheel weights when suggested in owner's manual.
14. Watch out for traffic when crossing or near roadways.
15. When using any attachments never direct discharge of material toward bystanders nor allow anyone near vehicle while in operation.
16. Handle gasoline with care—it is highly flammable.
 - A. Use approved gasoline container.
 - B. Never remove cap or add gasoline to a running or hot engine or fill fuel tank indoors. Wipe up spilled gasoline.
 - C. Open doors if engine is run in garage — exhaust fumes are dangerous. Do not run engine indoors.
17. Keep the vehicle and attachments in good operating condition, and keep safety devices in place. Use guards as instructed in owner's manual.
18. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
19. Never store the equipment with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow engine to cool before storing in any enclosure.
20. To reduce fire hazard keep engine free of grass, leaves or excessive grease.
21. The vehicle and attachments should be stopped and inspected for damage after striking a foreign object, and the damage should be repaired before restarting and operating the equipment.
22. Do not change the engine governor settings or overspeed the engine.
23. When using the vehicle with mower, proceed as follows:
 - (1) Mow only in daylight or in good artificial light.
 - (2) Never make a cutting height adjustment while engine is running if operator must dismount to do so.
 - (3) Shut engine off when removing grass catcher and/or unclogging chute.
 - (4) Check blade mounting bolts for proper tightness at frequent intervals.
24. Check grass catcher bags frequently for wear or deterioration. Replace with new bags for safety protection.
25. Look behind to make sure the area is clear before placing the transmission in reverse and backing up.

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ASSEMBLY

GRASS CATCHER Model No. 195-015A is available as optional equipment for the mowers shown in this manual.

WARNING

1. The mower should not be operated without the entire grass catcher or chute deflector in place.

NOTE

Under normal usage bag material is subject to wear, and should be checked periodically. Be sure any replacement bag complies with the mower manufacturer's recommendations.

For replacement bags, use only factory authorized replacement bag No. 764-0121.

IMPORTANT: After striking a foreign object, stop the engine. Remove wire from spark plug, thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower.

NOTE

Reference to right-hand or left-hand side of machine is from the driver's seat facing forward.

Your mower is shipped assembled except for the steering wheel and seat (and battery on the electric start model.)

TIRE PRESSURE

For shipping purposes, the tires on your unit may be over-inflated. Tire pressure should be reduced before unit is put into operation. Pressure should be approximately 15 p.s.i. Equal tire pressure should be maintained on all tires. **Maximum** tire pressure is 30 p.s.i.

STEERING WHEEL ASSEMBLY See figure 1.

Step 1. Line up the hole in the steering column and the hole in the tubing assembly and drive in the roll pin with a hammer.

NOTE

It may be necessary to use a drift to line up the holes.

Step 2. Place the end caps on the spacer.

Step 3. Slide the spacer over the tubing assembly until it lays flush against the steering box.

Step 4. Place the steering wheel on the tubing shaft.

Step 5. Secure in place with Belleville washer and hex nut.

Step 6. Put on steering wheel cap by hand.

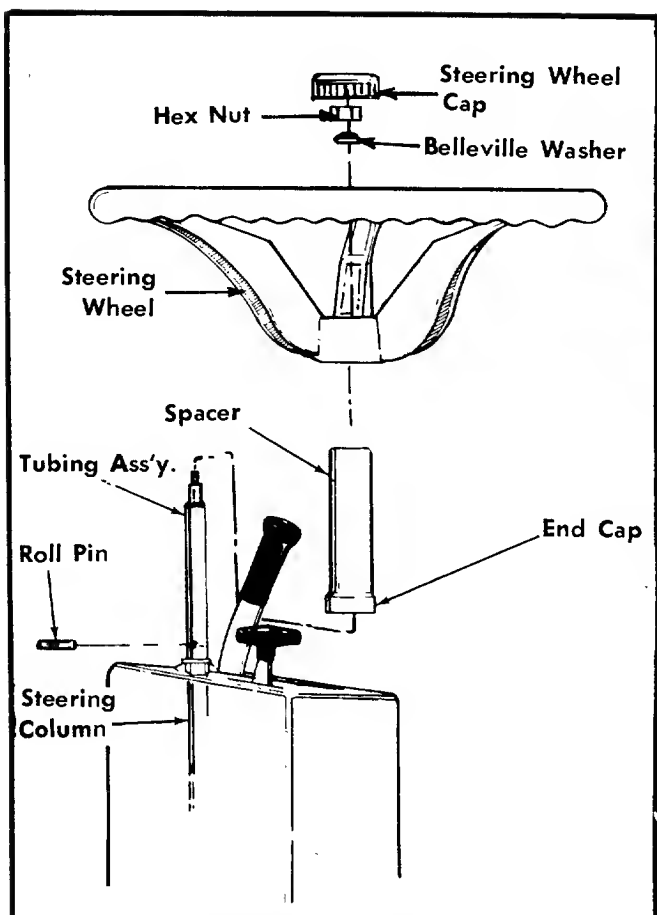


FIGURE 1. STEERING WHEEL ASSEMBLY

SEAT ASSEMBLY. See figures 2 and 3.

Step 7. Hook the large carriage bolt B into the bottom of the seat as shown in figure 2.

Step 8. Place the seat on the seat spring and secure with hex nut C. See figure 3.

NOTE

The seat is adjustable using any one of the four mounting holes.

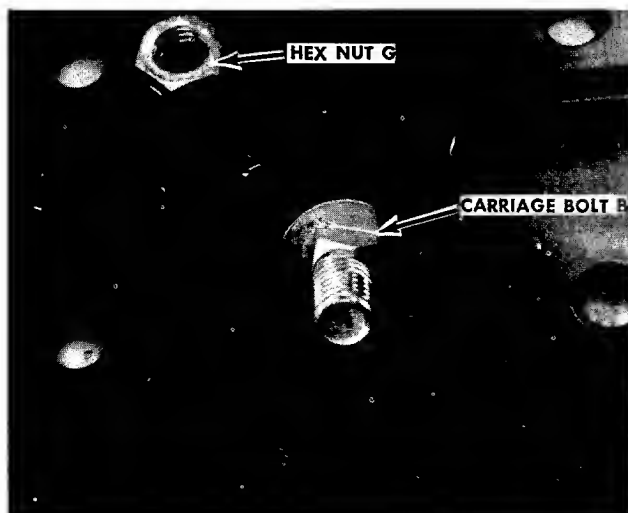


FIGURE 3. ATTACHING SEAT BOLT



FIGURE 3. SEAT ASSEMBLY

Step 9. Check ALL nuts and bolts for correct tightness.

ACTIVATING THE BATTERY (Electric Start Models Only)

DANGER

**BATTERIES CONTAIN SULFURIC ACID
MAY CONTAIN EXPLOSIVE GASES
(When Electrolyte Has Been Added)**

- A. Keep sparks, flame, cigarettes away.
- B. Hydrogen gas is generated during charging and discharging.
- C. Ventilate when charging or using in enclosed space.
- D. When using a charger—to avoid sparks, never connect or disconnect charger clips to battery while charger is turned on.
- E. Always shield eyes, protect skin and clothing when working near batteries.

WARNING

Since battery acid is corrosive to metals, do not pour into any sink or drain. Rinse empty Electrolyte containers and mutilate before discarding. If acid is accidentally spilled on battery during filling or charging, or on bench or clothing, etc., flush off with clear water and neutralize with soda or ammonia solution.

Step 1. Place the battery to be filled on a bench. Never activate the battery in the mower.

Step 2. Remove the vent plugs.

- Step 3. Place the acid pack in the upright position, pull the tab back to the edge of the carton, pull out hose, snip off end.
- Step 4. Fill each cell until the electrolyte level rises to the split ring at the bottom of the vent well.

CAUTION

Do not over-fill.

- Step 5. After filling the cells, wait five to ten minutes and add additional electrolyte if necessary to bring it up to the proper level.
- Step 6. Replace the vent caps.
- Step 7. Using the battery charger packed with your mower, charge the new battery for 2 hours before installing it in the riding mower.

NOTE

If you want to use a larger rated charger, use this guide.

25-30 amps	10 to 15 minutes
4-6 amps	30 minutes

INSTALLING THE BATTERY (Electric Start Models Only) **See figure 4.**

- Step 1. Tip the seat bracket forward to expose the battery box.
- Step 2. Remove screw (A) and lockwasher (B).

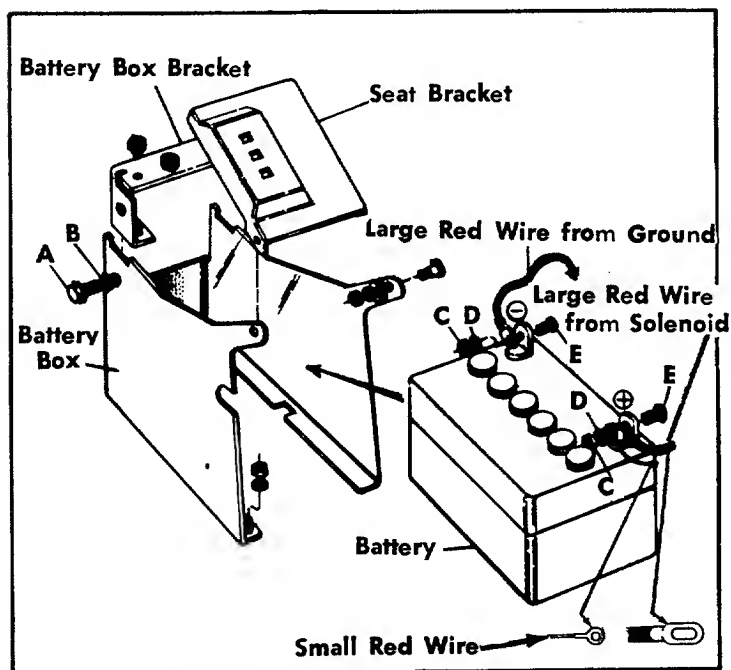


FIGURE 4. INSTALLING THE BATTERY

- Step 3. Lift out the battery box bracket.

- Step 4. Place the battery in the battery box with the positive terminal (+) to the front of the riding mower.
- Step 5. Attach the large red wire from the solenoid and the small red wire to the positive (+) terminal of the battery with a 1/4" screw (E), washer (D) and nut (C).
- Step 6. Attach the large red wire from the ground (-) to the negative (-) terminal of the battery with a 1/4" screw (E), washer (D) and nut (C).
- Step 7. Replace the battery box bracket with screw (A) and washer (B). See figure 4.

BATTERY CHARGER

1. The battery may be charged without removing it or without disturbing the cable connectors at the battery terminals.

2. Be sure the switch is in the 12 o'clock position.

3. Connect battery clips to battery terminals. Clip with (+) mark connects to positive terminal of the battery. Clip with no marking connects to negative terminal of battery. (Red clips are + and black clips are -.) Be sure that battery terminals are clean where charger clips are to be connected. Move clips back and forth several times to be sure a tight connection is made.

4. If sparking occurs at battery clips when connecting them to battery terminals the clips should be reversed on the battery terminals.

5. Make sure the voltage of the battery is the same as that of the charger, as mentioned before. Connect AC plug to an alternating current outlet of the same voltage and frequency as shown on the name plate of the charger. (To prevent short circuiting of the battery charger, be sure to connect clips to battery terminals before plugging into the AC outlet.)

6. The battery charger is equipped with an automatic circuit breaker which protects the charger against short circuits and overloads. These will cause the circuit breaker to trip open. After a short cooling off period the circuit breaker will "reset" automatically and allow the charger to operate normally. If the circuit-breaker trips open, make sure battery connections are correct.

7. If the charger continues to trip and connections are correct, the probable cause is in the battery, which may have been allowed to discharge below its normal discharge condition (or it may have one or more shorted cells). If this condition exists it will draw too much current and cause the circuit breaker to trip on and off. This will continue until the battery has recovered sufficiently to allow a normal charging current.

8. The charging rate depends upon the AC supply voltage and the internal condition of the battery. Under certain of these conditions the charger may not deliver its maximum charging rate to the battery. This should not be taken as an indication that the charger is inefficient.

9. The average time required to charge a battery is 8-10 hours for a completely discharged battery.

CONTROLS See figure 6.

This manual should be read in its entirety before you operate your Riding Mower. The more you know and understand about the machine and its operation, the better job it will do for you. While reading the manual, compare the illustrations with your mower to familiarize yourself with the locations of various controls, lubrication points, attachments and adjustment features.

IGNITION KEY

Recoil Model. The key must be turned to the ON position before the recoil handle is pulled to start the engine. Remove the key when the mower is not in use. Turn the key to the left (to the OFF position) to stop the engine.

LIFT AND DISENGAGEMENT LEVER

The lift and disengagement lever is used to raise and lower the cutting deck, set the cutting height, and disengage the cutting blades.

Move the lever to the left and pull the lever all the way back and lock it to disengage the blades. The lever may be set in any one of the five cutting height positions. This lever works in conjunction with the deck wheel adjusters.

Electric Model. The key must be turned to the START position to start the engine. After the engine is running let the key return to the ON position. Remove the key when the mower is not in use. Turn the key to the OFF position to stop the engine.

Study the operating instructions and safety precautions thoroughly to insure proper functioning of your mower and to prevent injury to yourself and others. Be sure to save this manual for future reference.

THROTTLE CONTROL

The throttle control is used to regulate the engine speed and to activate the choke on the engine. To get the maximum efficiency on cutting, the throttle should be in the FAST position when operating the mower. Pushing the throttle all the way forward, past FAST will choke the engine.

INTERLOCKS (Not Shown)

An interlock safety switch is located on the clutch pedal and the lift and disengagement lever.

The clutch pedal must be depressed all the way down (the speed control handle can be pulled back to lock it down) and the lift and disengagement lever must be in the STOP position (all the way back) before the engine can be started. Failure to follow these instructions will prevent starting.

On the recoil start model, the ignition will be grounded. On the electric start model, the starter will not run.

GEAR SHIFT LEVER

The gear shift lever has three positions, FORWARD, NEUTRAL and REVERSE. The clutch pedal must be depressed and the riding mower must not be moving when shifting gears. Shifting gears may be difficult when the speed control handle is all the way back. Do not force the shift lever. Release the clutch pedal slightly to line up the shifting collar in the transmission. Then try to shift the gears.

BRAKE

To operate the brake depress the right pedal all the way down. To lock the brake in the park position, pivot the pedal forward with your foot as you depress it. It will stay in the depressed position. To release the parking brake, pivot the pedal to the rear.

DECK WHEEL ADJUSTERS

Always set both deck wheels in the same relative position. Set these wheels after the Lift and Disengagement Lever is set. The wheels should just clear the ground. This will prevent scalping the grass.

CLUTCH PEDAL

The clutch pedal on the left side when depressed reduces the ground speed. It disengages the engine from the transmission when depressed all the way down. It can be held in the disengaged position by pulling the Speed Control Handle into the locked position (all the way back). To stop the mower, depress the Clutch and Brake Pedals.

SPEED CONTROL HANDLE. See figures 5 and 6.

The Speed Control Handle can be used as a hand control for the clutch pedal. It is also used to lock the clutch pedal in the disengaged position by pulling it all the way back towards the operator.

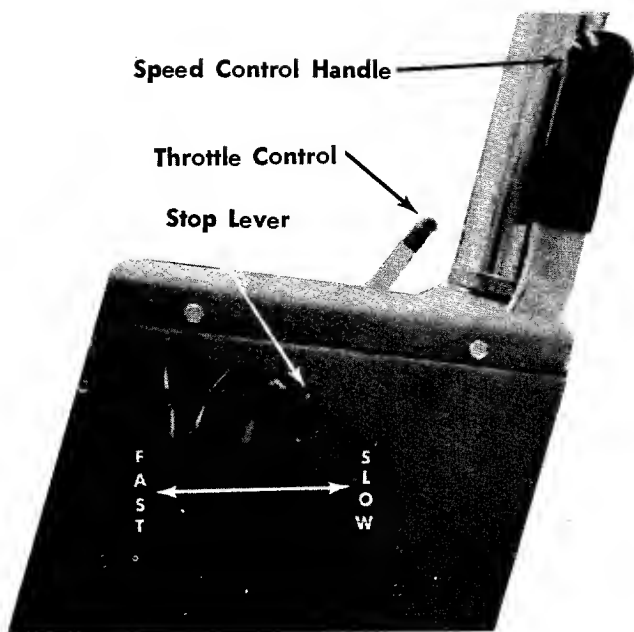


FIGURE 5. SPEED CONTROL

STOP LEVER. See figures 5 and 6.

The Stop Lever allows you to regulate the maximum ground speed of the riding mower by setting the Stop Lever in any one of the five settings.

NOTE

The further forward the Stop Lever is set, the faster the ground speed.

Depressing the clutch pedal at any time will slow the mower. If depressed all the way, it will stop the mower.

STOPPING

Engine—Turn the ignition key to the left to the OFF position.

Rider—Depress the clutch and brake pedals.

Blades—Pull the lift and disengagement lever all the way back and lock it.

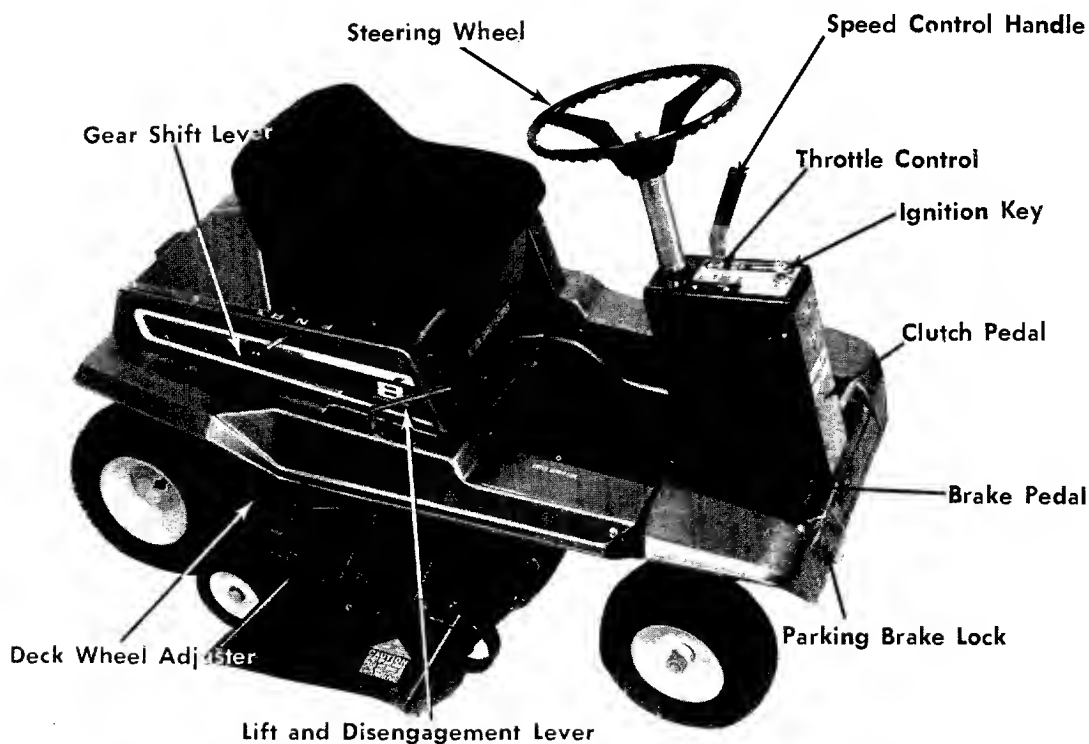


FIGURE 6. CONTROLS

OPERATING INSTRUCTIONS

CAUTION

1. Keep all shields and guards in place.
2. Before leaving operator's position:
 - Shift controls into neutral
 - Set parking brake
 - Disengage attachment drive
 - Shut off engine
 - Remove ignition key
3. Wait for all movement to stop before servicing machine.
4. Keep people and pets a safe distance away from machine.

CAUTION

Parking Brake **MUST** be disengaged before unit is put into motion.

NOTE

Unit is equipped with separate brake and clutch pedals. To efficiently stop, it is necessary to disengage the clutch when applying the brakes.

STARTING THE ENGINE

1. Be sure the crankcase is filled with oil as recommended in the engine manual. Put regular gasoline in the gasoline tank.
2. Be sure the fuel shut off valve located on the carburetor is open.
3. Attach the wire to the spark plug.
4. Depress the clutch pedal and lock it down with the speed control lever.
5. Pull the lift and disengagement lever all the way back to the disengaged position and lock it.
6. Set the throttle control lever in the **CHOKE** position.
7. **Recoil Model.** Turn the ignition key to the **ON** position. Twist the recoil starter handle until it is free and pull it with a quick steady motion. After the engine starts, return the recoil starter handle. Twist it until it locks. See figure 7.

NOTE

If these instructions are not followed the engine will stop running when you engage the clutch or blades are engaged.

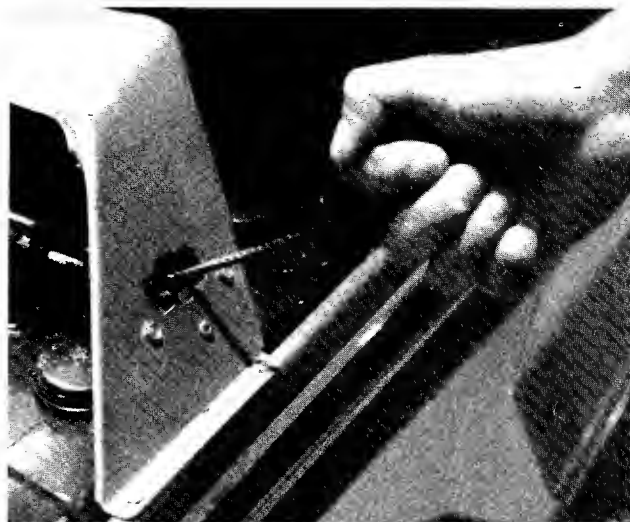


FIGURE 7. RECOIL STARTER

Electric Start Model. Turn the ignition key to the **START** position. When the engine starts let the key return to the **ON** position.

Slowly return the throttle to the running position as soon as the engine starts.

8. To stop either model, turn the ignition key to the **OFF** position. Remove the key when the rider is not in use.

PUTTING THE RIDING MOWER IN MOTION

1. Advance the throttle control from $\frac{3}{4}$ to full throttle to prevent strain on the engine and to operate the cutting blades.
2. Set the stop lever in the slowest position.
3. Hold the clutch pedal down with your left foot and release the speed control lever.
4. Place the gear shift lever in either the **FORWARD** or **REVERSE** position.
5. Slowly release the clutch pedal.
6. To stop, depress the clutch and the brake pedals.
7. The blades can be engaged while moving or while standing still. Move the lift and disengagement lever forward slowly until the blades are running.

After learning to control the machine at slow speeds, set the stop lever in a faster position. The unit will maintain the highest speed set without touching the controls. To slow down, depress the clutch pedal until the speed desired is obtained. When the clutch pedal is released, the riding mower will operate at the highest speed set on the stop lever.

MAINTENANCE AND ADJUSTMENTS

THROTTLE CONTROL

To Check Operation:

1. Remove air cleaner.
2. Move throttle control lever to CHOKE position. The carburetor choke should be closed.
3. Move throttle control lever to STOP position. Lever should make good contact with stop switch.

To Adjust: See figure 8.

Place throttle control lever in FAST (high speed) position. Loosen control casing clamp screw "B". Move control casing "A" and wire until lever "D" touches choke operating link at "C". Tighten casing clamp screw "B". Replace air cleaner.

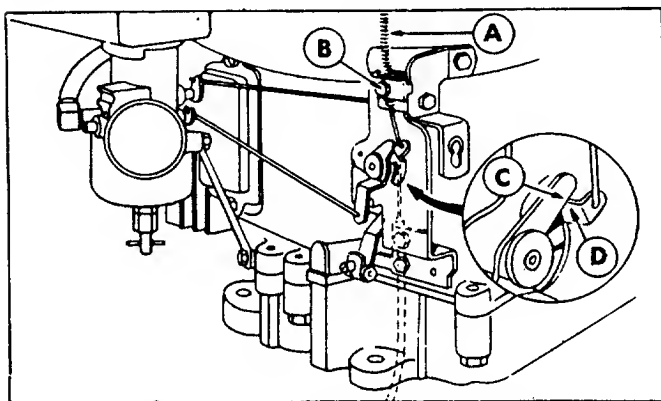


FIGURE 8. THROTTLE ADJUSTMENT

CARBURETOR ADJUSTMENT

Carburetors are adjusted at the factory and normally do not need adjustment unless they have been disassembled.

Initial Adjustment After Re-assembly. See figure 9.

Turn needle valve clockwise until it just closes. **CAUTION:** Valve may be damaged by turning it too far. Now open needle valve 1-1/8 turns counterclockwise. Close idle valve in same manner and open 1-1/8 turns. This initial adjustment will permit the engine to be started and warmed up prior to final adjustment.

Final Adjustment. See figure 9.

Turn needle valve in until engine misses (lean mixture). Then turn it out past smooth operating point until engine runs unevenly (rich mixture). Now turn needle valve to the mid-point between rich and lean so the engine runs smoothly.

Hold throttle at idle position and set idle speed adjusting screw until fast idle is obtained (1750 RPM). Hold throttle in idle position and turn idle valve in (lean) and out (rich) until engine idles smoothly. Then reset idle speed adjusting screw so that engine idles at 1750 RPM. Release throttle—engine should accel-

erate without hesitation or sputtering. If engine does not accelerate properly the carburetor should be re-adjusted to a slightly richer mixture.

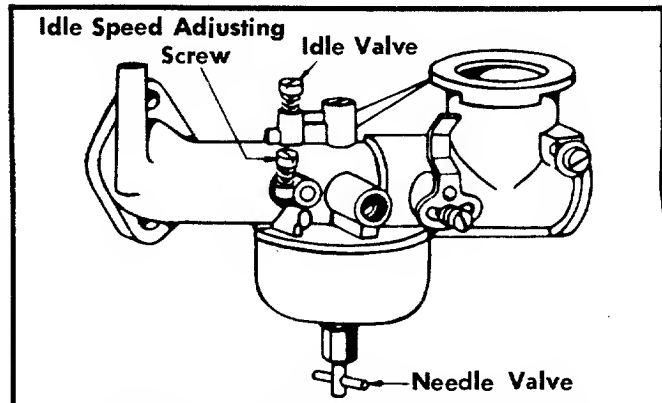


FIGURE 9. CARBURETOR ADJUSTMENT

CHAIN ADJUSTMENT

After the first five hours of operation the initial slack should be removed from the chain. The chain should be tight enough so that it deflects approximately 1/2" when it is depressed with the thumb.

To Adjust:

The adjusting bolt is located under the frame, above the cutting deck on the right side of the mower.

Turn the adjusting bolt clockwise with an open end wrench until the chain reaches the proper tension.

NOTE

If the transmission mounting plate will not slide forward to adjust the chain tension, it may be necessary to loosen the four nuts mounting the transmission to the frame.

To adjust the brake, tighten the locknut one half turn and then test the brakes. Repeat if necessary.

The brake is located by the right rear wheel inside the frame.

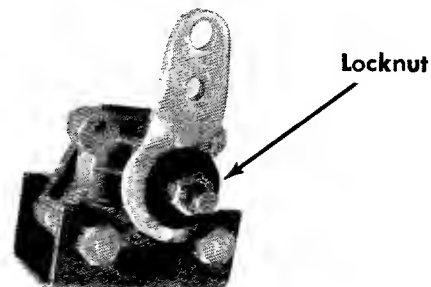


FIGURE 10. BRAKE ADJUSTMENT

BLADES

WARNING

Disconnect the spark plug wire and remove the ignition key before removing the blades.

Sharp and balanced blades are essential for efficient mowing and long mower and engine life. When sharpening blades, file equal amounts of metal from each side. The blades should be balanced before they are reinstalled. An unbalanced blade will cause excessive vibration and undue wear on the mower and the engine. When reassembling, all parts must be installed in the proper order and fastened securely.

Remove the $\frac{3}{8}$ " bolt and lockwasher. Pull the blade and adapter off the mower deck. To remove the adapter from the blade, remove the two $\frac{5}{16}$ " bolts, lockwashers and nuts. See figure 11.

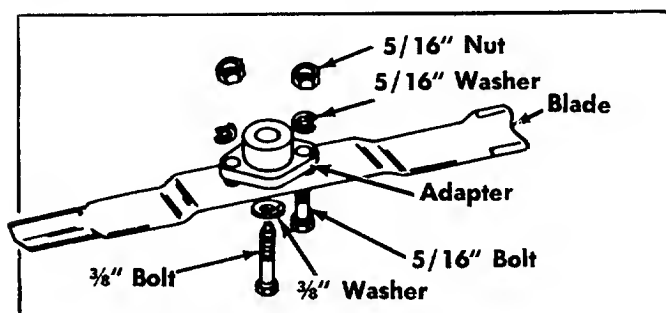


FIGURE 11. BLADE REMOVAL

MOWER DECK

The underside of the mower deck should be cleaned after each period of use as grass clippings, leaves, dirt and other matter will accumulate. This accumulation of grass clippings, etc., is undesirable as it will invite rust and corrosion and may cause an uneven discharge of grass clippings at the next mowing.

The deck may be cleaned by tilting the mower on its front wheels until the frame and the steering wheel supports the entire unit. Scrape clean with a suitable tool or by washing with a stream of water from a garden hose. Be sure to disconnect the spark plug wire and ground it while performing this maintenance.

PREPARING FOR BELT REMOVAL

1. To prevent gasoline from leaking from the engine, remove the fuel tank cap, place a piece of thin plastic over the neck of the fuel tank and screw on the cap.

2. Disconnect the spark plug wire and ground it against the engine.

NOTE

If the unit is equipped with a battery, continue with step 3.

3. Remove the battery to prevent acid from leaking.

WARNING

Disconnect the negative terminal first and connect last when installing the battery.

BELT REMOVAL. See figure 12.

To remove either or both belts:

1. Place the speed control lever in the locked position.
2. Move the lift and disengagement lever into the disengaged position.
3. Remove the two rear hex nuts on the engine bolts to remove the engine belt guard and slide the guard away from the chain to remove it.
4. Lower the cutting deck to its lowest position.
5. Remove the blade drive belt from the engine pulley.

NOTE

The blade drive belt need not be removed. Go to Step 8.

6. Remove the deck belt guards.
7. Remove and replace the belt.

To remove the variable speed belts:

8. Remove the variable speed pulley by removing the center hex nut and lockwasher.
9. Remove the transmission pulley by removing the hex nut and washer.
10. The belts can now be removed.

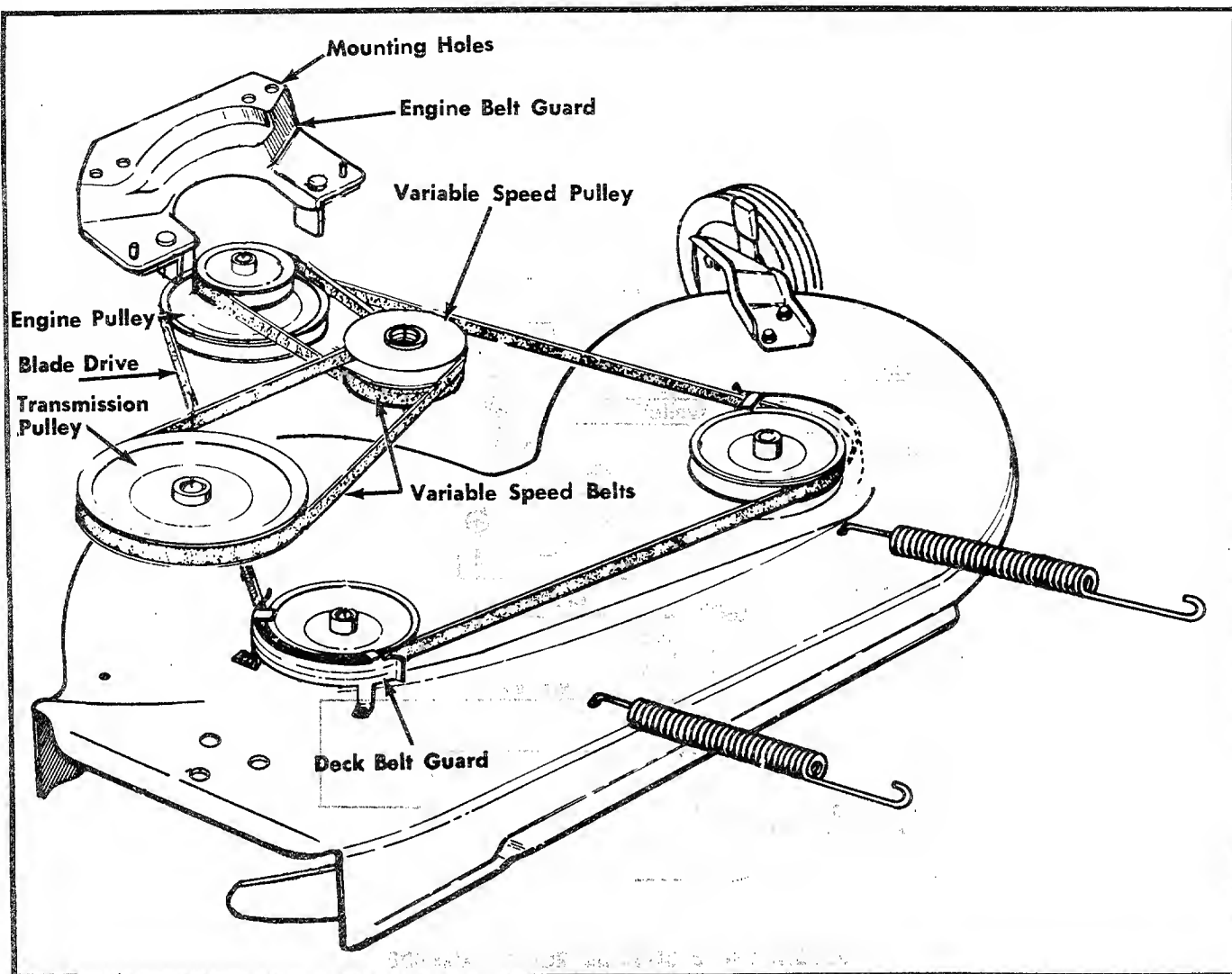


FIGURE 12. BELT REMOVAL

LUBRICATION

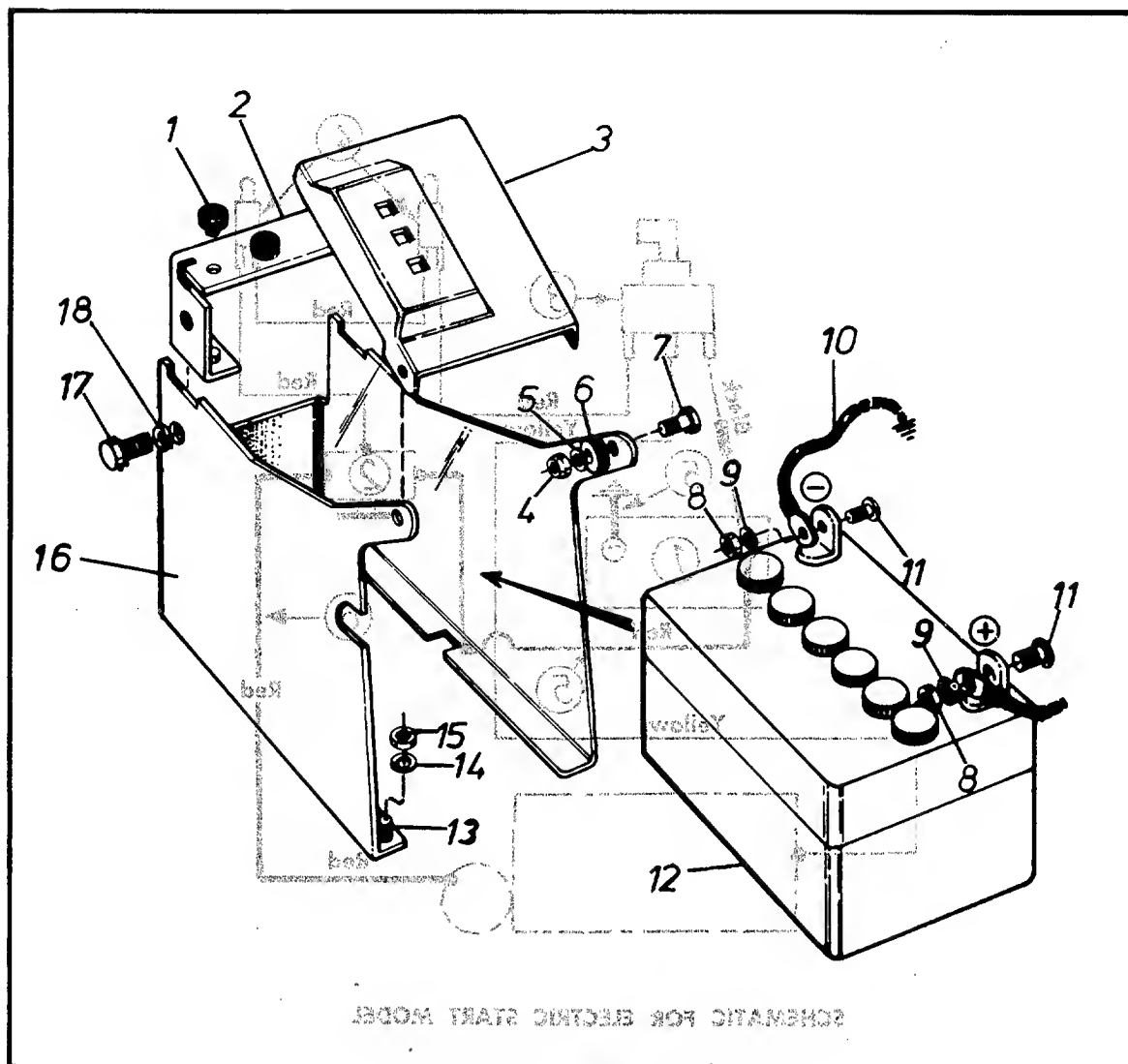
1. **Engine.** Maintain the engine oil according to the engine manual.
2. **Bearings.** The following bearings are oil impregnated and do not require lubrication, however, their normal life can be extended by lubricating them once a season with a light, non-detergent oil.
 - A. King Pin Bearings (total 4 bearings)
 - B. Rear Axle Bearings (total 3 bearings)
 - C. Front Wheel Bearings (total 4 bearings)
 - D. Deck Wheel Bearings (total 4 bearings)
3. **Throttle Control and Cable.** Wipe oiled rag along entire length of cable.

4. **Chain.** Wipe oiled rag along entire length of chain.

NOTE

Under extremely dusty conditions do not oil the chain.

5. **Linkage.** Oil all deck linkage and height adjustment linkage.
6. **Transmission.** Lubricated at the factory, does not require checking. Lubricate with 5 oz. of grease, high temp. 450°F, if disassembled.
7. **Differential.** Lubricated at the factory, does not require checking. Lubricate with 2 oz. of grease, high temp. 450°F if disassembled. If ordered from the factory use Part No. 737-0120.



BATTERY BOX BREAKDOWN

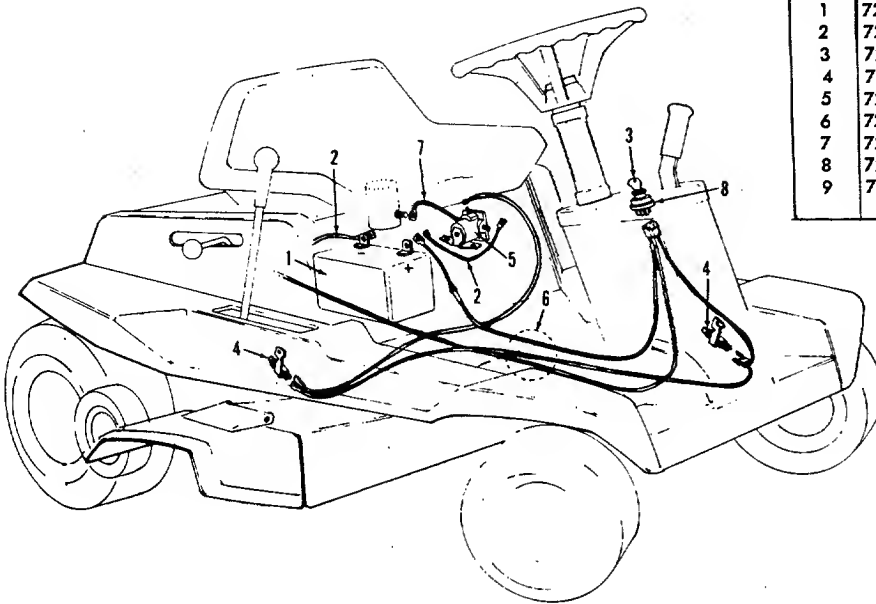
PARTS LIST FOR BATTERY BREAKDOWN MODELS 135-430A AND 435A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	DESCRIPTION	NEW PART
1	735-0109		Stem Bumper		11	710-0252	Hex Hd. Cap Scr. 1/4-20 x .75" Lg.* (135-435A)	
2	10062-458		Battery Box Bracket Ass'y.		12	725-0117	Battery Dry 12 Volt with Acid Pack (135-435A)	
3	10060-458		Seat Bracket		13	710-0322	Hex Sems Scr. 5/16-18 x 1.00" Lg.*	
4	712-0267		Hex Nut 5/16-18 Thd.*		14	736-0119	Spring Lockwasher 5/16" Scr.*	
5	736-0159		Flat Washer .344 I.D. x .88" O.D.		15	712-0267	Hex Nut 5/16-18 Thd.*	
6	735-0127		Rubber Washer .33 I.D. x .87" O.D.		16	10059-458	Battery Box	
7	710-0198		Hex Sems Scr. 5/16-18 x .75" Lg.*		17	710-0216	Hex Hd. Cap Scr. 3/8-16 x .75" Lg.*	
8	712-0287		Hex Nut 1/4-20 Thd.* (135-435A)		18	736-0169	Spring Lockwasher 3/8" Scr.*	
9	736-0329		Spring Lockwasher 1/4" Scr.* (135-435A)					
10	725-0150		Battery Ground Wire (135-435A)					

*For faster service obtain standard nuts and bolts locally. If these items cannot be obtained locally, order by part number and size as shown on the parts list.

PARTS LIST FOR ELECTRIC START MODEL

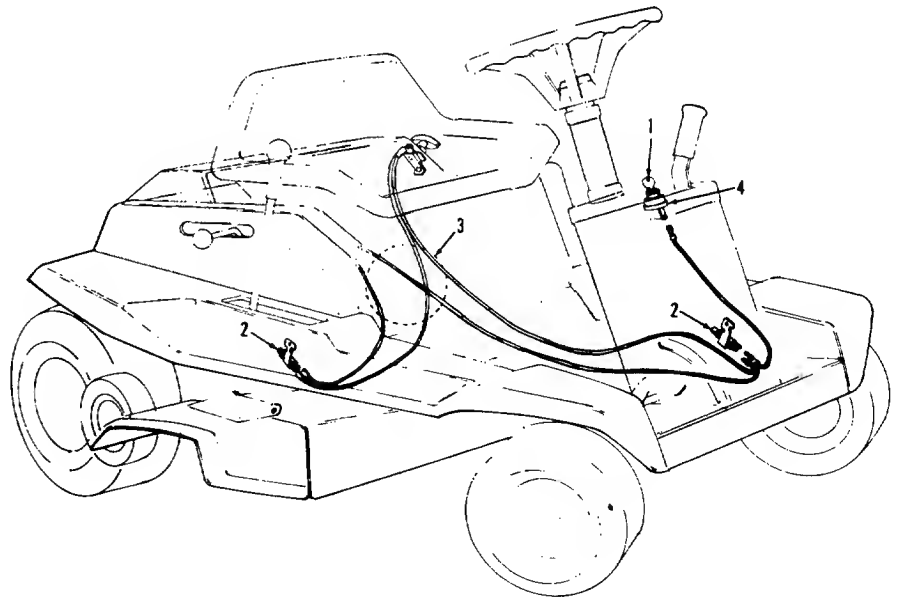
REF. NO.	PART NO.	DESCRIPTION
1	725-0117	Battery
2	725-0122	Wire
3	725-0179	Key Only for Switch
4	725-0268	Safety Switch (Black)
5	725-0270	Solenoid—Cole #24022
6	725-0280	Wire Harness
7	725-0150	Wire
8	725-0267	Switch
9	725-0156	Battery Charger 1¼ Amps. (Not Shown)



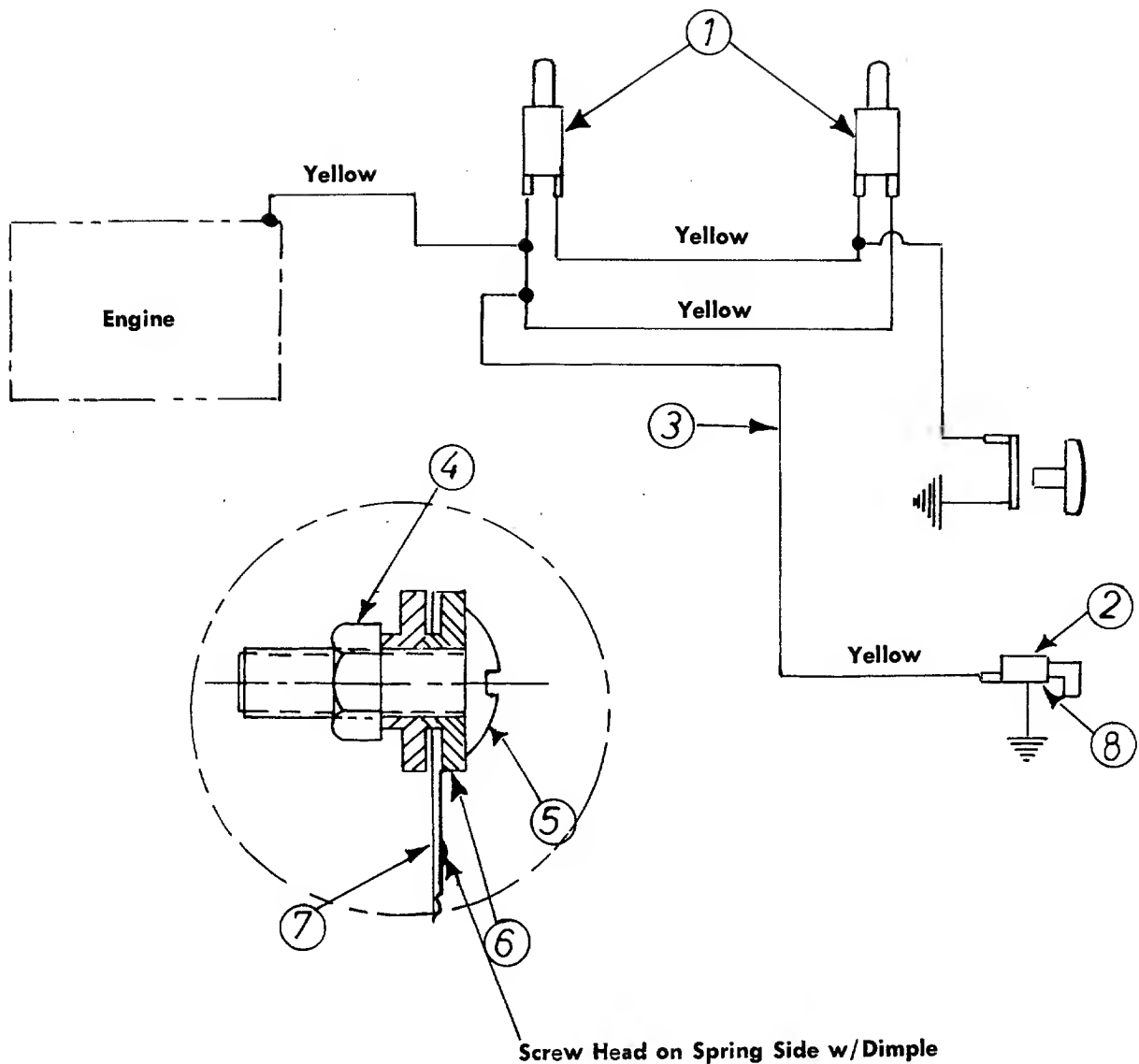
ELECTRICAL SYSTEM (ELECTRICAL START MODEL)

PARTS LIST FOR RECOIL START MODEL

REF. NO.	PART NO.	DESCRIPTION
1	725-0128	Key Only for Switch
2	725-0269	Safety Switch (Red)
3	725-0281	Wire Harness
4	725-0266	Switch



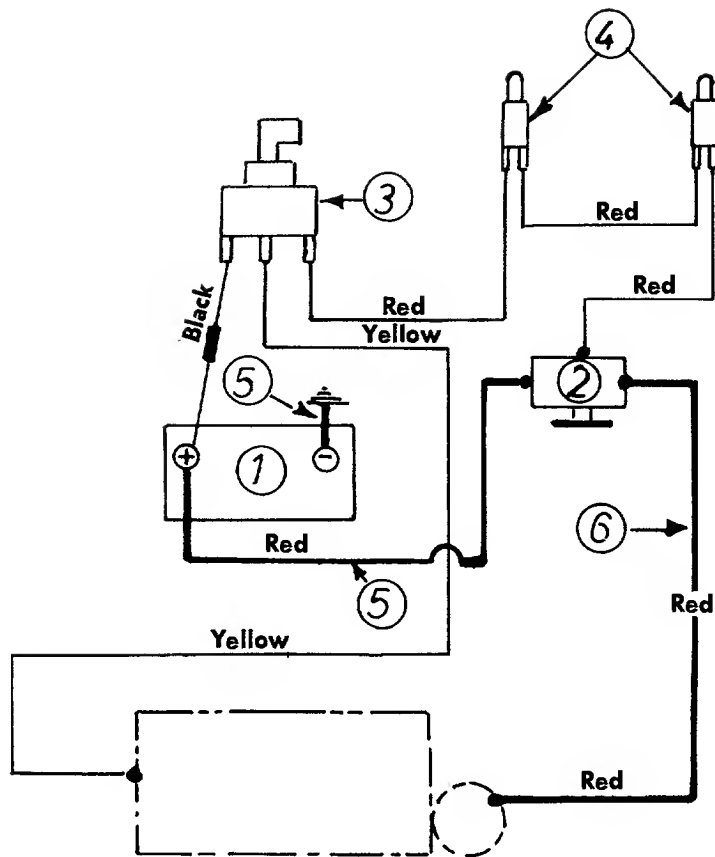
ELECTRICAL SYSTEM (RECOIL START MODEL)



SCHEMATIC FOR ELECTRICAL SYSTEM

PARTS LIST FOR SCHEMATIC MODEL 135-430A

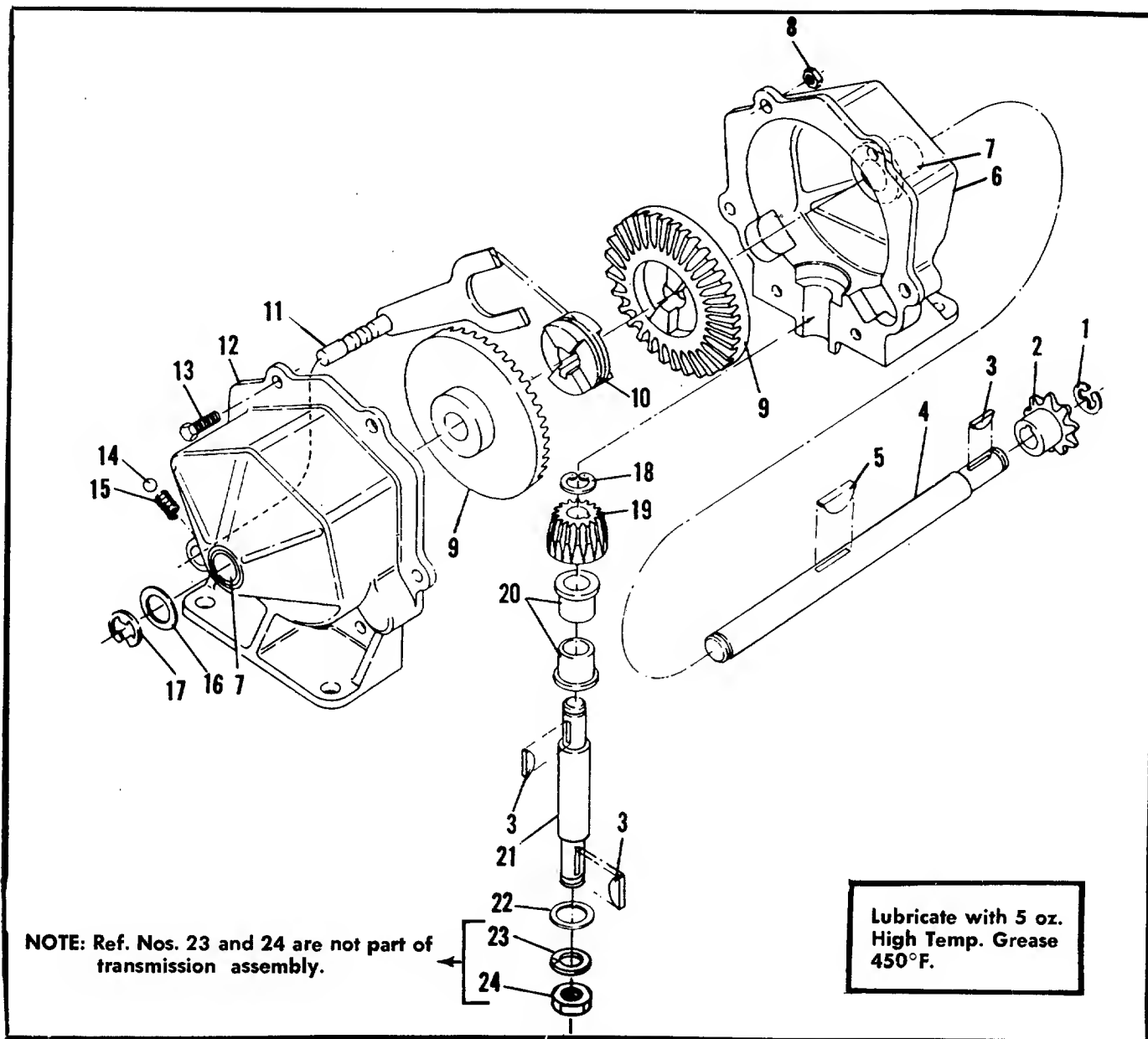
REF. NO.	PART NO.	DESCRIPTION	NEW PART
1	725-0269	Safety Switch Norm Closed-Red	
2	725-0266	Magneto Ignition Switch w/Nut	
3	725-0281	Wire Harness	
4	712-0121	Hex Nut #10-24	
5	710-0425	Truss Mach. Scr. #10-24 x .62	
6	736-0338	Fiber Washer	
7	732-0257	Switch Spring	
8	736-0225	Internal L-Wash, 5/8 I.D.	



SCHEMATIC FOR ELECTRIC START MODEL

PARTS LIST OF SCHEMATIC FOR MODEL 135-435A

REF. NO.	PART NO.	DESCRIPTION	NEW PART
1	725-0117	Battery	
2	725-0270	Solenoid	
3	725-0267	Key Switch	
4	725-0268	Safety Switch—Black	
5	725-0122	Electric Wire	
6	725-0150	Electric Wire	
7	725-0280	Wire Harness	

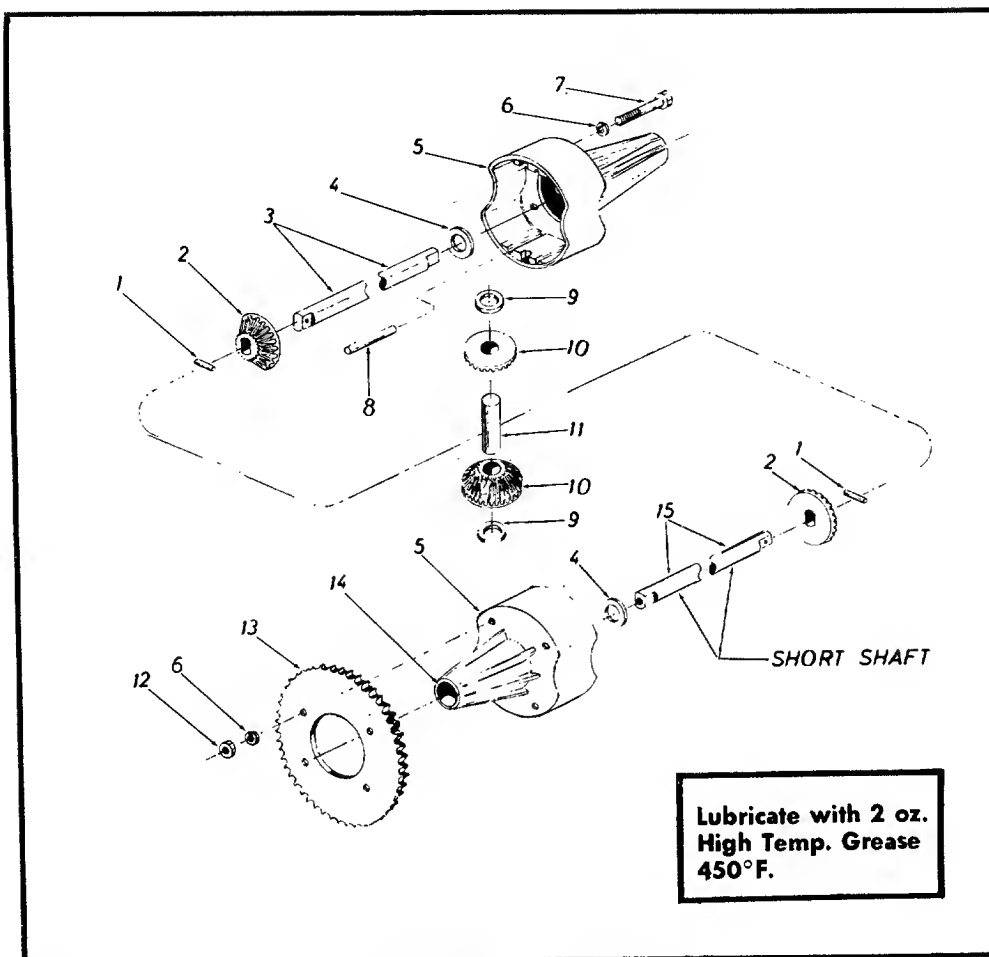


SINGLE SPEED TRANSMISSION PART NO. 717-0223

PARTS LIST FOR TRANSMISSION USED ON MODELS 135-430A AND 435A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	716-0104		Snap Ring		13	710-0195		Hex Hd. Cap Scr. ¼-28 x .62*	
2	748-0852		Sprocket 8T #41		14	741-0862		Detent Ball	
3	714-0129		Key Hi-Pro #4		15	732-0863		Detent Spring	
4	711-0854		Shaft Output		16	736-0116		Washer	
5	714-0126		Key Hi-Pro #606 (Hardened)		17	716-0106		E-ring	
6	717-0123		Housing Half		18	716-0865		Snap Ring #3100-50	
7	748-0855		Bearing		19	748-0866		Bevel Pinion	
8	712-0117		Locknut ¼-28 Thd.*		20	748-0867		Bearing	
9	748-0856		Bevel Gear		21	738-0159		Pinion Shaft	
10	748-0857		Clutch Collar		22	736-0192		Washer	
11	08583		Detent Shaft Assembly		23	736-0921		Lockwasher ½"	
12	717-0124		Housing Half with Detent Hole		24	712-0922		Hex Jam Nut ½-20 Thd.*	
					25	737-0120		Grease High Temp. 450°F. (5 oz.)	

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally order by part number and size as shown on parts list.



DIFFERENTIAL ASSEMBLY

PARTS LIST FOR DIFFERENTIAL ASSEMBLY PART NUMBER 717-0271

REF. NO.	PART NO.	QTY REQ'D	DESCRIPTION	NEW PART
1	715-0247	2	Spring Pin Spir. 3/16" Dia. x 1.00" Lg.	
2	748-0185	2	Gear—Double "D" Hole	
3	738-0262	1	Shaft—Long 19.17" Lg.	
4	736-0188	2	Fl-Wash. .760 I.D. x 1.49 O.D.	
5	719-0150	2	Housing Half	
6	736-0119	8	L-Wash. 5/16" Scr.*	
7	710-0363	4	Hex Scr. 5/16-24 x 4.00" Lg.	
8	715-0123	2	Dowel Pin 3/16" Dia. x .62" Lg.	
9	736-0187	2	Fl-Wash. .640 I.D. x .24 O.D.	
10	748-0158	2	Gear—Round Hole	
11	711-0276	1	Drive Pin	
12	712-0237	4	Hex Center L-Nut 5/16-24 Thd.	
13	09054	1	Sprocket—40 Tooth	
14	748-0169	2	Flange Bearing	
15	738-0261	1	Shaft—Short 6.93" Lg.	
	737-0120		Grease—Hi. Temp. 450° F (2 oz.)	

*For faster service obtain standard nuts, bolts, and washers locally. If these items cannot be obtained locally, order by part number and size as shown on the parts list.

TROUBLE SHOOTING CHART FOR RECOIL START MODELS

CAUTION: ALWAYS DISCONNECT SPARK PLUG BEFORE ATTEMPTING ANY REMEDY.

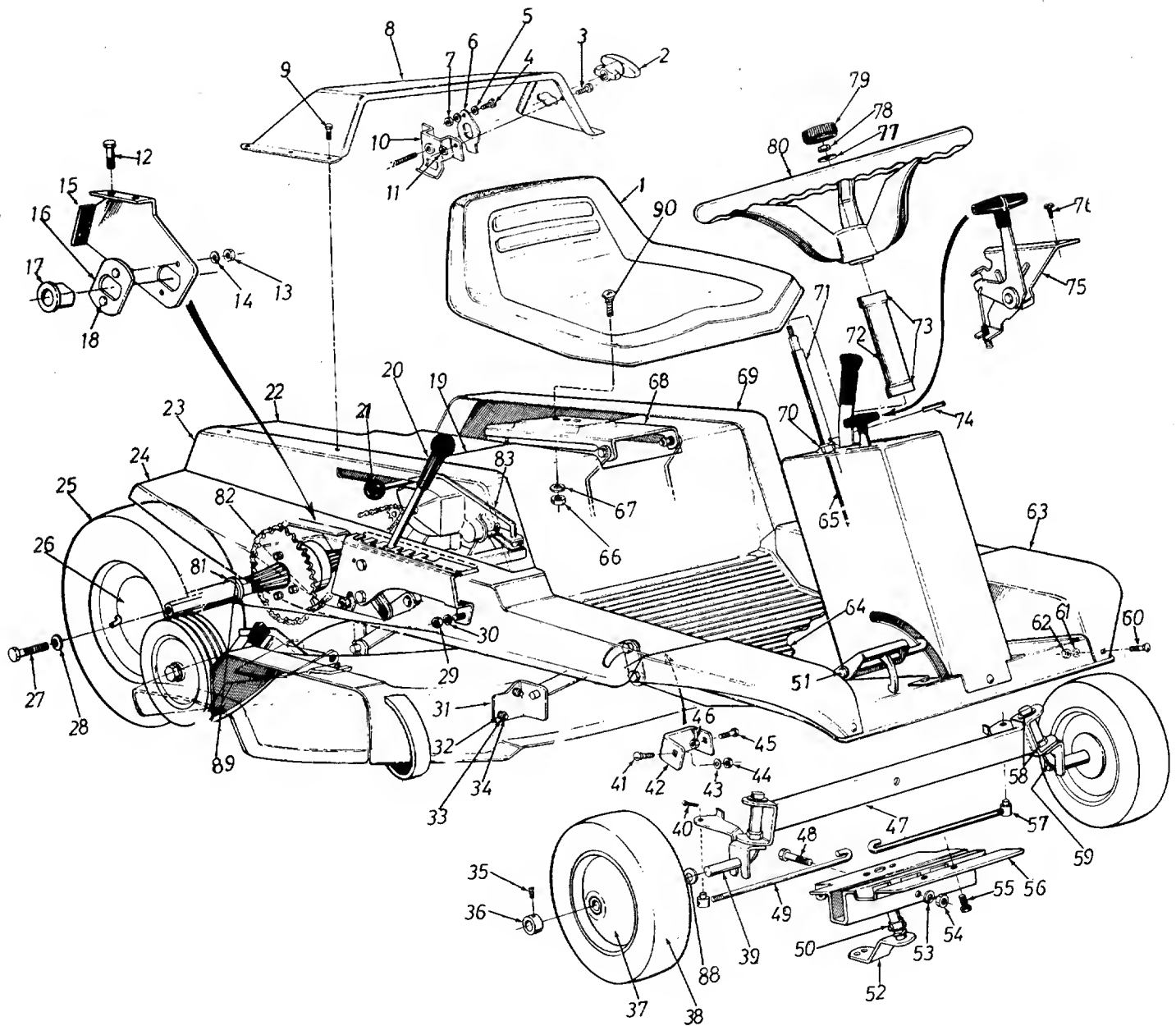
TROUBLE	LOOK FOR	REMEDY
Engine fails to start.	Safety System	<p>If the engine will not start be sure the clutch control is disengaged; blade controls disengaged, the throttle control is set and the key is turned on.</p> <p>A. Disconnect the yellow wire from the engine. This comes from the ignition switch.</p> <p>B. If the engine fails to start the problem is with the engine, not the safety system.</p> <p>C. If the engine starts, the problem is with the safety system. Check the yellow wire for a ground.</p> <p>D. Check the operation of the switch behind the recoil starter handle.</p> <p>E. If the engine stops when the clutch or blade is engaged, the recoil handle is not pushed into the receptacle and twisted a quarter turn.</p>
	Blocked fuel line or empty gas tank.	Clean fuel line; check fuel supply. Also check fuel shut-off valve.
	Defective spark plug.	<p>Spark plug lead wire disconnected.</p> <p>Faulty spark plug—spark should jump gap between control electrode and side electrode. If spark does not jump, replace spark plug.</p> <p>NOTE: Use insulated pliers to hold the spark plug wire.</p>
	Throttle setting.	Throttle control lever not in the starting position.
	Loose connections	Spark plug wire loose.
Hard starting or loss of power.	Dirty air cleaner.	Remove air cleaner and clean as outlined in Engine Manual .
	Carburetor improperly adjusted.	Review paragraph Carburetor Adjustment .
Excessive vibration.	Bent or damaged blade spindle.	Stop engine immediately; tighten all bolts and make all necessary repairs. If vibration continues, have the unit serviced by a competent repairman.
Unit fails to discharge grass.	Discharge chute clogged.	Clean discharge chute and inside of deck.
	Foreign object lodged in deck.	Remove object from deck. See CAUTION following step 1 in paragraph Operation .
Engine overheats.	Obstructions in air passages.	Remove any obstruction from air passages in shroud.
	Grass and dirt in engine shroud.	Clean cooling fins.
	Oil level.	Fill crankcase to proper oil level.

TROUBLE SHOOTING CHART FOR ELECTRIC START MODELS

TROUBLE	LOOK FOR	REMEDY
Engine fails to start.	Safety System	<p>A. Check for a blown fuse in the wire leading from the positive terminal of the battery.</p> <p>B. Before checking the safety system further, be sure the clutch control and the blade control are disengaged; only the starting system is being checked. Therefore remove the spark plug lead and ground it to prevent the engine from starting.</p> <p>C. Attach a wire (minimum 18 gauge) to the positive terminal of the battery and touch the other end to the small terminal (coil primary) of the solenoid. If the engine cranks, the problem is in the safety system.</p> <p>D. Check for continuity from the battery to the solenoid. NOTE: The positive terminal of the battery should have a large cable (#8 gauge) and a small wire (#18 gauge) attached to it.</p> <p>E. Check all wires and cable for tightness.</p> <p>F. Use a #8 gauge wire and jump between the two large terminals of the solenoid. If the unit starts, replace the solenoid.</p> <p>G. If the unit fails to start after following the above procedure the problem is probably in the starting motor of the engine.</p>
	Blocked fuel line or empty gas tank.	Clean fuel line; check fuel supply. Also check fuel shut-off valve.
	Defective spark plug.	<p>Spark plug lead wire disconnected.</p> <p>Faulty spark plug—spark should jump gap between control electrode and side electrode. If spark does not jump, replace spark plug.</p> <p>NOTE: Use insulated pliers to hold the spark plug wire.</p>
	Throttle setting.	Throttle control lever not in the starting position.
	Loose connections	Spark plug wire loose.
Hard starting or loss of power.	Dirty air cleaner.	Remove air cleaner and clean as outlined in Engine Manual .
	Carburetor improperly adjusted.	Review paragraph Carburetor Adjustment .
Excessive vibration.	Bent or damaged blade spindle.	Stop engine immediately; tighten all bolts and make all necessary repairs. If vibration continues, have the unit serviced by a competent repairman.
Unit fails to discharge grass.	Discharge chute clogged.	Clean discharge chute and inside of deck.
	Foreign object lodged in deck.	Remove object from deck. See CAUTION following step 1 in paragraph Operation .
Engine overheats.	Obstructions in air passages.	Remove any obstruction from air passages in shroud.
	Grass and dirt in engine shroud.	Clean cooling fins.
	Oil level.	Fill crankcase to proper oil level.

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IF YOU WRITE TO US ABOUT THIS ARTICLE
OR IF YOU ORDER REPLACEMENT PARTS AL-
WAYS MENTION THIS MODEL & SERIAL NO
MODEL



EXPLODED VIEW OF RIDER

PARTS LIST FOR MODELS 135-430A AND 435A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	757-0252		Seat Ass'y. 10.0" Back		42	10806-458		Fender Brace	
2	11263		Handle—Plastic (430A Only)		43	736-0329		L-Wash. 1/4" Scr.*	
3	710-0351		Truss Hd. Self Tap Scr. #10 x .50 Lg. (430A)		44	712-0287		Hex Nut 1/4-20 Thd.*	
4	710-0425		Truss Hd Mach Scr. #10-24 x .62 (430A)		45	710-0252		Hex Hd. Cap Scr. 1/4-20 x .75"	
5	736-0338		Fiber Washer (430A Only)		46	712-0287		Hex Nut 1/4-20 Thd.*	
6	732-0257		Switch Spring (430A Only)		47	09711-458		Pivot Bar Ass'y.	
7	712-0121		Hex Nut #10-24 Thd. (430A Only)		48	710-0312		Hex Hd. Cap Scr. 5/16-18 x 1.31"	
8	11528-458		Eng. Box Top Bezel (430A Only)		49	711-0335		Tie Rod	
	11527-458		Eng. Box Top Bezel (435A)		50	748-0227		Hex Flng. Brg. .630 I.D. Bronze	
9	710-0224		Hex AB-Tapp Scr. #10 x .50"		51	726-0221		Push Cap 1/2" Dia.	
10	11053		Switch Brkt. Ass'y. (430A Only)		52	09922		Steering Shaft Ass'y.	
11	712-0287		Hex Nut 1/4-20 Thd.* (430A Only)		53	736-0158		L-Wash. 5/8" Scr.*	
12	710-0198		Hex Sems Scr. 5/16-18 x .75"		54	712-0923		Hex Center L-Nut 5/16-18 Thd.	
13	712-0267		Hex Nut 5/16-18 Thd.*		55	710-0198		Hex Sems Scr. 5/16-18 x .75"	
14	736-0119		Spring L-Wash. 5/16" Scr.		56	11376-458		Front Pivot Bracket	
15	10471		Rear Axle Sup Brkt. Ass'y.		57	711-0198		Pivot Bushing (Tie Rod End)	
16	10470		Bearing Plate		58	748-0227		Hex Flange Brg. .630 I.D. Bronze.	
17	748-0151		Flange Brg. with Flats .753 I.D.		59	09709-458		Front Wheel Axle Ass'y.—L.H.	
18	710-0198		Hex Sems Scr. 5/16-18 x .75"		60	710-0134		Carriage Bolt 1/4-20 x .62" Lg.*	
19	10826-458		Eng. Box—Front Panel		61	736-0329		L-Wash. 1/4" Scr.*	
20	720-0143		Grip Black—Lift Handle		62	712-0287		Hex Nut 1/4-20 Thd.*	
21	720-0165		Ball Knob—Blk. 1 1/2 x 3/4-16 Thd		63	10810-458		Fender L.H.	
22	10827-458		Eng. Box—Top Panel		64	735-0117		Floor Mat 3/32—Running Board	
23	10824-458		Eng. Box—Side Panel—R.H.		65	09922		Steering Shaft Ass'y.	
24	10809-458		Fender—R.H.		66	712-0206		Hex Nut 1/2-13 Thd.*	
25	734-0523		Rear Wheel Ass'y.—Comp. 13.0 x 5.0		67	736-0921		L-Wash. 1/2" Scr.*	
26	734-0517		Rear Wheel Rim Ass'y. Only (Includes Hub)		68	10060-458		Seat Bracket	
27	710-0568		Hex Tap Scr. 5/16-18 x .75" Lg.		69	10825-458		Eng. Box Side Panel—L.H.	
28	736-0242		Belleville Wash. .345 I.D. x .88 O.D.		70	748-0227		Hex Flange Brg. .630 I.D. Bronze	
29	712-0267		Hex Nut 5/16-18 Thd.*		71	750-0209		Steering Tube Ass'y.	
30	736-0119		L-Wash. 5/16" Scr.*		72	09920		Steering Tube Spacer	
31	11168		Lift Bracket		73	09921		Bearing Cap	
32	736-0329		L-Wash. 1/4" Scr.*		74	715-0114		Spring Pin Spir. 1/4" Dia. x 1.50"	
33	712-0287		Hex L-Nut 1/4-20 Thd.*		75	746-0177		Throttle Control 53.0" Lg.	
34	710-0289		Hex Hd. Cap Scr. 1/4-20 x .50"		76	710-0224		Hex AB-Tapp Scr. #10 x .50"	
35	710-0494		Sq. Hd. Ser Scr. 5/16-18 x .38 Lg. Cup		77	736-0219		Belleville Wash. .400 I.D. x 1.13 O.D.	
36	711-0169		Collar 5/8" I.D.		78	712-0158		Hex Center-L-Nut 5/16-18 Thd.	
37	734-0486		Front Wheel Rim Ass'y. ONLY (Includes Hub)		79	731-0220		Steering Wheel Cap	
	734-0483		Front Wheel Ass'y.—Comp. 10.5 x 3.50		80	731-0219		Steering Wheel 12" Dia.	
39	09706-458		Front Wheel Axle Ass'y.—R.H.		81	748-0151		Flange Brg. with Flats .735 I.D.	
40	714-0507		Cotter Pin 3/32" Dia. x 1.00"		82	713-0357		#41 Chain 1/2" Pitch x 67 Links	
41	710-0134		Carriage Bolt 1/4-20 x .62" Lg.*		83	713-0723		#41 Master Link 1/2" Pitch Type II	
					84	10846		Shift Lever Ass'y.	
					85	09964		Steering Tube Spacer Ass'y. (Made up of Ref. Nos. 72&73)	
					86	09963-458		Hitch Bracket (Not Shown)	
					87	11228		Plastic Funnel (Not Shown)	
					88	725-0156		Battery Charger (Not Shown) (Electric Start Only)	
					89	736-0156		Fl.-Wash.	
					90	736-0134		Fl.-Wash.	
						710-0385		Carriage Bolt 1/2-13 Thd.*	

*For faster service obtain standard nuts and bolts locally. If these items cannot be obtained locally, order by part number and size as shown on the parts list.

NOTE: This instruction manual covers various models and all accessories shown do not necessarily apply to your model mower. The engine is not under warranty by the mower manufacturer.

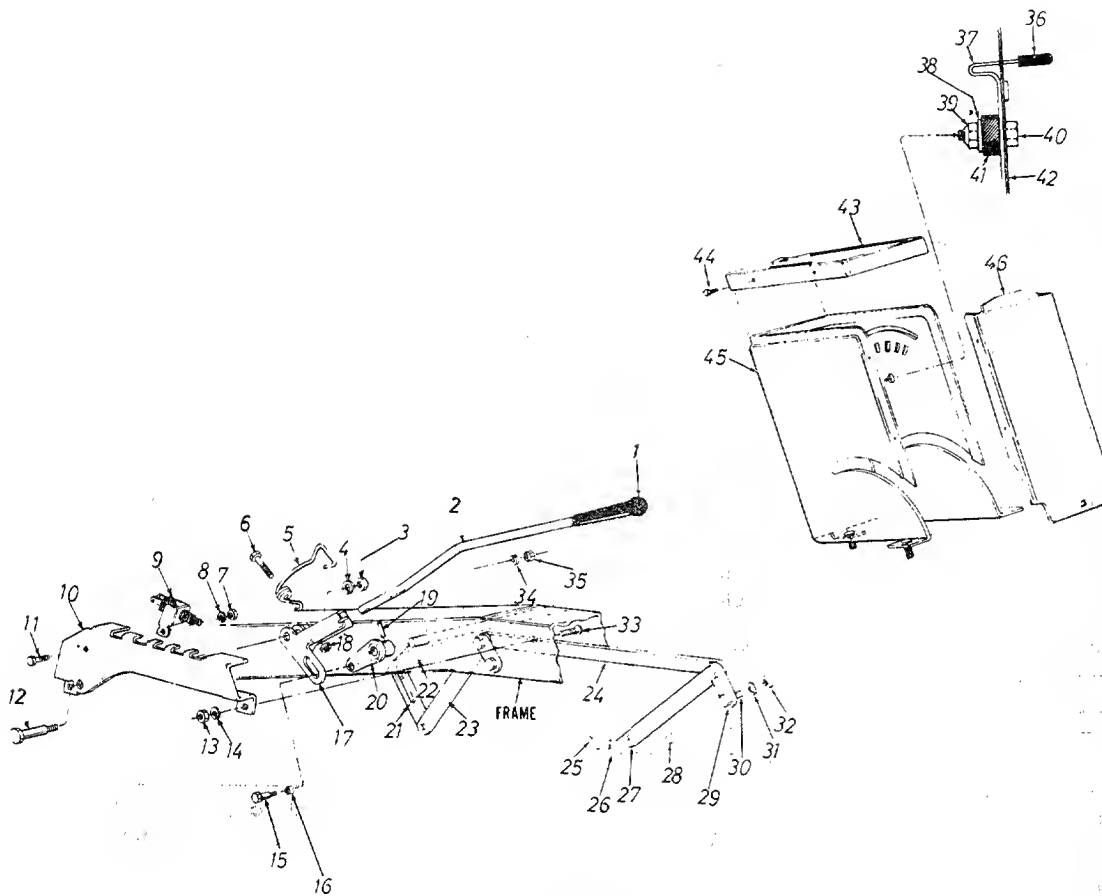
(458—Arctic Blue Flake)

When ordering parts if color or finish is important, use the appropriate color code shown at left (e.g. Arctic Blue Flake finish—10057 (458)).

If repairs or service is needed on the engine, please contact your nearest authorized engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines—Gasoline."



135-430A 135-435A



CONTROL LINKAGES

Step 1. Check for proper
operation of the control linkage.

Step 2. Check for proper
operation of the control linkage.

Step 3. Check for proper
operation of the control linkage.

Step 4. Check for proper
operation of the control linkage.

Step 5. Check for proper
operation of the control linkage.

Step 6. Check for proper
operation of the control linkage.

Step 7. Check for proper
operation of the control linkage.

Step 8. Check for proper
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Step 9. Check for proper
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Step 10. Check for proper
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Step 11. Check for proper
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Step 12. Check for proper
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Step 13. Check for proper
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Step 14. Check for proper
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Step 15. Check for proper
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Step 16. Check for proper
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Step 17. Check for proper
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Step 18. Check for proper
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Step 19. Check for proper
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Step 20. Check for proper
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Step 21. Check for proper
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Step 22. Check for proper
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Step 23. Check for proper
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Step 24. Check for proper
operation of the control linkage.

Step 25. Check for proper
operation of the control linkage.

Step 26. Check for proper
operation of the control linkage.

Step 27. Check for proper
operation of the control linkage.

Step 28. Check for proper
operation of the control linkage.

Step 29. Check for proper
operation of the control linkage.

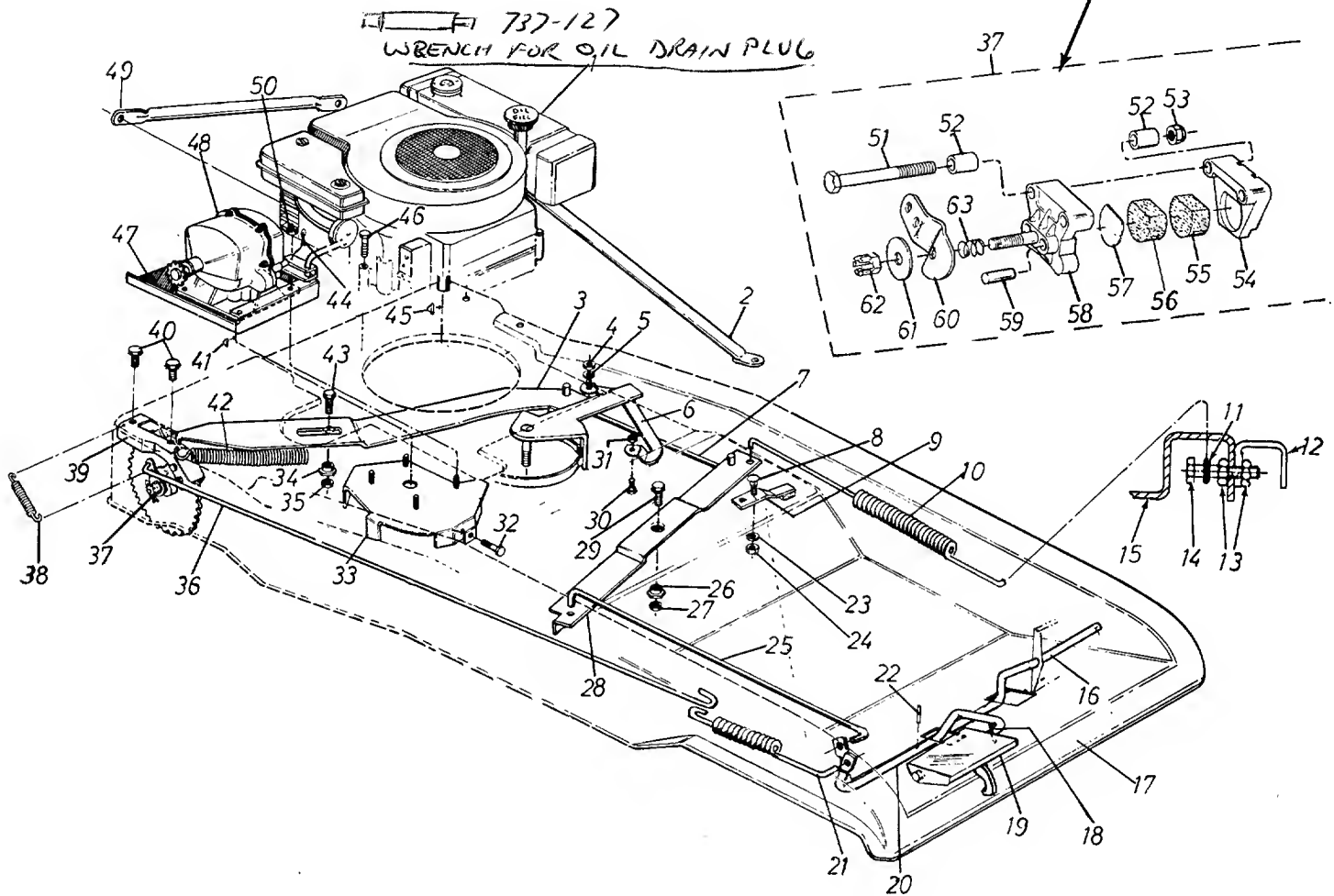
Step 30. Check for proper
operation of the control linkage.

PARTS LIST FOR MODELS 135-430A AND 435A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	720-0143		Grip Black—Lift Handle		31	736-0119		L-Wash. 5/16" Scr.*	
2	11826		Lift Handle		32	712-0267		Hex Nut 5/16-18 Thd.*	
3	712-0798		Hex Nut 3/8-16 Thd.*		33	710-0260		Carriage Bolt 5/16-18 x .62"	
4	736-0169		L-Wash. 3/8" Scr.*		34	736-0105		Belleville Wash.	
5	732-0231		Torsion Spring		35	712-0342		Hex Jam Nut 3/8-16 Thd.*	
6	710-0559		Hex Hd. Cap Scr. 1/4-28 x 1.75"		36	11249		Plastic Knob—For Handle Stop	
7	712-0287		Hex Nut 1/4-20 Thd.*		37	10358		Handle Stop	
8	736-0329		L-Wash. 1/4" Scr.*		38	736-0159		Flat Wash. .344 I.D. x .88 O.D.	
9	725-0268		Safety Switch (435A)		39	712-0429		Hex Ins. L-Nut 5/16-18 Thd.	
	725-0269		Safety Switch (430A Only)		40	738-0234		Shldr. Scr. .500 Dia. x .295	
10	11825-458		Index Bracket		41	735-0126		Rub. Wash. .33 I.D. x .87 O.D.	
11	710-0258		Hex Hd. Cap Scr. 1/4-20 x .62"		42	11375		Steering Box	
12	738-0213		Shldr. Scr. .498" Dia. x 1.450		43	11373		Steering Box—Top Cover	
13	712-0267		Hex Nut 5/16-18" Thd.*		44	710-0224		Hex AB-Tapp. Scr. #10 x .50"	
14	736-0119		L-Wash. 5/16" Scr.*		45	11375		Steering Box	
15	738-0234		Shldr. Scr. .500" Dia. x .295		46	10818		Steering Box—Front Cover	
16	750-0195		Roller—Spacer .505 I.D. x .628 O.D.		47	720-0142		Flat Bar End Grip	
17	11827-458		Handle Lift Brkt. Ass'y.		48	11277		L-Nut Lever Ass'y.	
18	712-0117		Hex Center L-Nut 1/4-28 Thd.		49	736-0232		Wave Wash. .530 I.D.x.78 O.D.	
19	715-0107		Sprg. Pin Spir. 5/16" Dia.x1.38"		50	10832		Brake Lever Brkt.	
20	11831-458		Lift Hub Ass'y.		51	736-0169		L-Wash. 3/8" Scr.*	
21	09737-458		Link Slotted		52	712-0798		Hex Nut 3/8-16 Thd.*	
22	11830-458		Lift Shaft Ass'y.		53	712-0267		Hex Nut 5/16-18 Thd.*	
23	12337-458		Deck Link Ass'y.		54	736-0119		L-Wash. 5/16" Scr.*	
24	09735-458		Conn. Rod 3/16 x 1.0 x 12.5" Lg		55	712-0267		Hex Nut 5/16-18 Thd.*	
25	714-0101		Int. Cotter Pin 1/2" Dia.		56	11379		Clutch Foot Pedal Rod Ass'y.	
26	736-0192		Fl. Wash. .531 I.D. x .93 O.D.		57	10614		Pedal Pad—Vinyl	
27	12337-458		Deck Link Ass'y		58	736-0119		L-Wash. 5/16" Scr.*	
28	711-0332		Lift Brkt. Pin		59	712-0107		Hex Center L-Nut 1/4-20 Thd.	
29	09721-458		Pivot Link Ass'y.		60			Lockout Link Ass'y.	
30	738-0140		Shldr. Scr. .437" Dia. x .180		61	738-0234		Shldr. Scr. .500 Dia. x .295	

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NOTE: If for any reason Disc Brake is disassembled, be sure round end of push pins (Ref. No. 59) is toward the cam lever (Ref. No. 60).



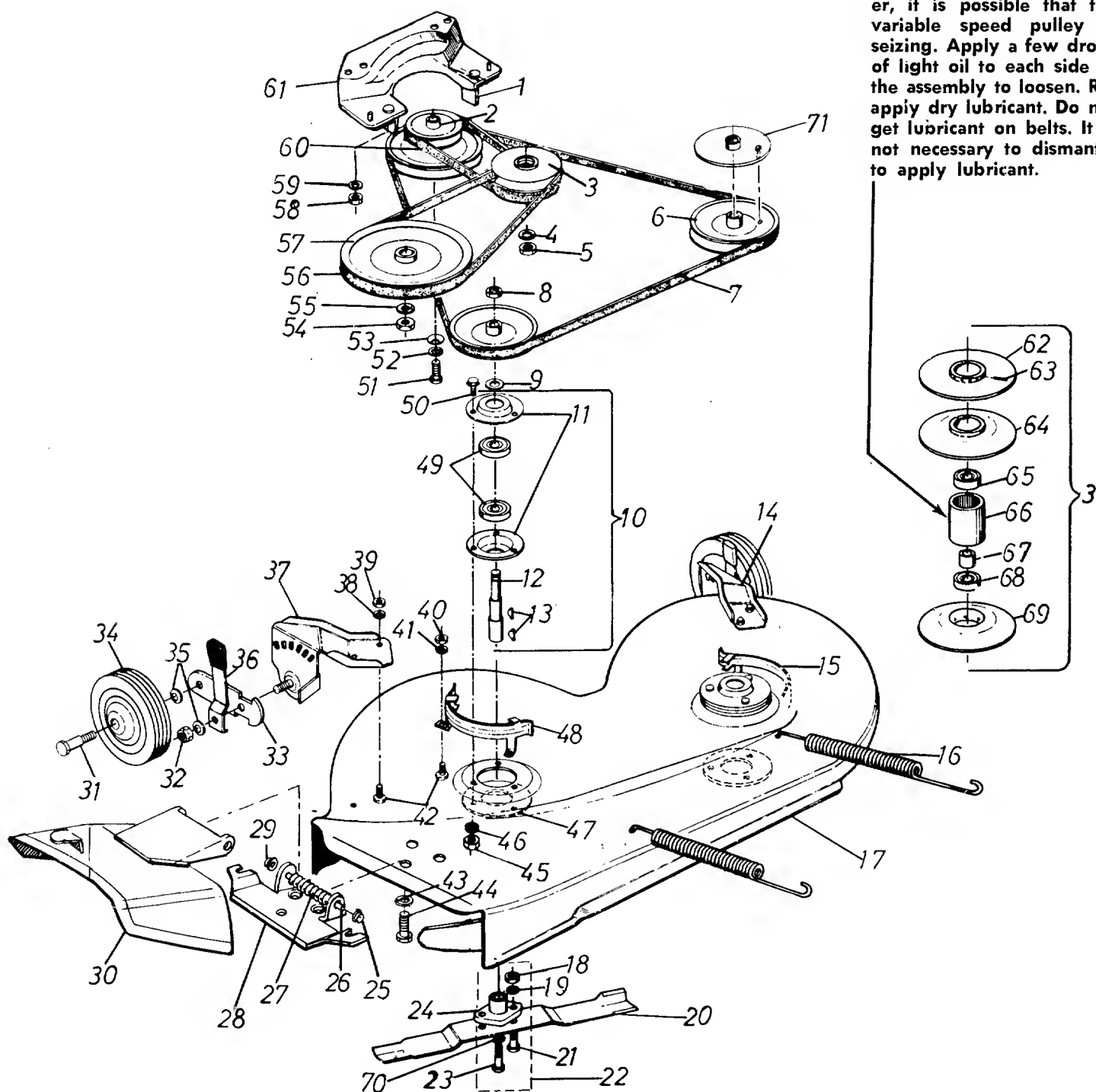
FRAME VIEW

PARTS LIST FOR MODELS 135-430A AND 435A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	—		Engine		37	761-0130		Disc, Brake Ass'y.—Comp.	
2	10804		Engine Brace Ass'y.		38	732-0118		Extension Spring (Brake)	
3	09785		Vari. Spd. Brkt. Ass'y.		39	10245-458		Disc Brake Brkt. Ass'y.	
	10599		Vari. Spd. Pulley & Brkt. Ass'y.—Comp.		40	710-0198		Hex Sems Scr. 5/16-18x.75"	
4	712-0267		Hex Nut 5/16-18 Thd.*		41	714-0129		#4 Hi Pro Key 3/32 x 5/8" Dia. Hardened	
5	736-0119		L-Wash. 5/16" Scr.*		42	732-0192		Spring .88 O.D. x 3.75 (Var. Drive)	
6	10173		Var. Spd. Guide Brkt. Ass'y.		43	710-0322		Hex Sems Scr. 5/16-18 x 1.00" Lg.*	
7	10080		Vari. Spd. Rod		44	715-0119		Spring Pin Spir. 5/32" Dia. x .75" Lg.	
8	710-0134		Carriage Bolt 1/4-20 x .62"*		45	714-0365		#6 Hi Pro Key 5/32 x 5/8" Dia.	
9	761-0157		Blade Brake Ass'y.		46	710-0442		Hex Hd. Cap Scr. 5/16-18 x 1.50" Lg. H.T.	
10	732-0191		Spring .75 O.D. x 11.0" Lg. (Variable Sp. Pedal)		47	—458		Transmission Plate	
11	732-0191		Spring .75 O.D. x 11.0" Lg. (Variable Sp. Pedal)		48	717-0223		Transmission Ass'y. Comp.	
12	10801-458		Fender Brace		49	10404		Engine Brace	
13	712-0287		Hex Nut 1/4-20 Thd.*		50	712-0429		Hex Ins. L-Nut 5/16-18 Thd.	
14	710-0136		Hex Hd. Cap Scr. 1/4-20 x 1.75"		51	710-0378		Hex Hd. Cap Scr. 5/16-18 x 2.50" Lg.*	
15	10057-458		Frame		52	761-0133		Spacer for Disc Brake .322 I.D. x .38	
16	11379-458		Clutch Foot Padel Rod Ass'y.		53	712-0158		Hex Center L-Nut 5/16-18 Thd.*	
17	10057-458		Frame		54	HH-12-03293		Casting Carrier Side	
18	715-0131		Spring Pin Roll 1/4" Dia.x2.50"		55	HH-15-03149		Friction Pad 1.110" Dia. x .245 thk.	
19	10848-458		Foot Pedal Latch Ass'y.		56	HH-03-03303		Friction Pad 1.110" Dia. x .472 thk.	
20	11378		Brake Foot Pedal Rod		57	HH-03-03303		Back-up Disc	
21	732-0245		Brake Spring		58	HH-12-03292		Casting Cam Side	
22	715-0103		Sprg. Pin Spir. 1/8" Dia. x .75"		59	HH-05-03034		Push Pin	
23	736-0329		L-Wash. 1/4" Scr.*		60	HH-18-03493		Cam Lever	
24	712-0287		Hex Nut 1/4-20 Thd.*		61	HH-03-03032		Washer	
25	10078		Foot Pedal Rod—18.80" Lg.		62	HH-02-03631		Hex Locknut	
26	711-0404		Shoulder Nut		63	HH-06-03031		Spring	
27	712-0429		Hex Cent. L-Nut 5/16-18 Thd.		66	737-0104		Sq. Hd. Pipe Pug 1/4" (For Eng. Oil Drain—Not Shown)	
28	11382-458		Clutch Bar Rod		67	737-0114		Pipe Nipple 3/8-1/4 x 3.0" Lg. For Eng. Oil Drain—Not Shown)	
29	710-0322		Hex Sems Scr. 5/16-18 x 1.00"*						
30	710-0198		Hex Sems Scr. 5/16-18x.75"*						
31	712-0267		Hex Nut 5/16-18 Thd.*						
32	710-0117		Hex Hd. Cap Scr. 5/16-24 x 1.00" Lg. H.T.						
33	09780-458		Trans. Belt Guard Ass'y.						
34	711-0404		Shoulder Nut						
35	712-0429		Hex Ins. L-Nut 5/16-18 Thd.						
36	747-0109		Brake Rod .25" Dia. x 31.62"						

135-430A 135-435A

NOTE: If mower fails to respond to speed control lever, it is possible that the variable speed pulley is seizing. Apply a few drops of light oil to each side of the assembly to loosen. Re-apply dry lubricant. Do not get lubricant on belts. It is not necessary to dismantle to apply lubricant.



PARTS LIST FOR MODELS 135-430A AND 435A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	10426		Belt Keeper Ass'y.		38	736-0119		L-Wash. 5/16" Scr.*	
2	756-0232		Two Step Engine Pulley		39	712-0267		Hex Nut 5/16-18 Thd.*	
3	10438		Vari. Speed Pulley Ass'y.		40	712-0267		Hex Nut 5/16-18 Thd.*	
4	736-0921		L-Wash. 1/2" Scr.*		41	736-0119		L-Wash. 5/16" Scr.*	
5	712-0922		Hex Jam Nut 1/2-20" Thd.		42	710-0289		Hex Hd. Cap Scr. 1/4-20 x .50"*	
6	756-0124		Pulley 4.75 O.D. (Deck)		43	736-0329		L-Wash. 1/4" Scr.*	
7	754-0127		V-Belt 21/32 x 66.0" Lg.		44	710-0195		Hex Hd. Cap Scr. 1/4-28x.62"*	
8	712-0242		Hex Jam Nut 5/8-11 Thd. (Deck)		45	712-0267		Hex Nut 5/16-18 Thd.*	
9	736-0162		Flat Washer .641 I.D.		46	736-0119		L-Wash. 5/16" Scr.*	
10	09321		Blade Spindle Ass'y.		47	09164		Deck Reinforcement Plate	
11	08253		Housing—Bearing		48	09733		Belt Guard (Deck)	
12	711-0255		Blade Spindle		49	741-0919		Ball Brg. .787 I.D. x 1.85 O.D.	
13	714-0365		#6 Hi Pro Key 5/32 x 5/8" Dia.		50	710-0322		Hex Sems Scr. 5/16-18 x 1.00"*	
14	11237		Wheel Brkt. Ass'y. L.H. (Deck)		51	710-0152		Hex Hd. Cap Scr. 3/8-24 x 1.00" Lg. H.T.	
15	09733		Belt Guard (Deck)		52	736-0217		L-Wash. 3/8" Scr. H.D.	
16	732-0153		Spring .750" O.D. x 8.65" Lg.		53	736-0235		Flat Wash. .406 I.D. x 1.25 O.D.	
17	12340		30 inch Deck Ass'y.		54	710-0152		Hex Hd. Cap Scr. 3/8-24 x 1.00" Lg. H.T.	
18	712-0123		Hex Nut 5/16-24 Thd.*		55	736-0921		L-Wash. 1/2" Scr.*	
19	736-0119		L-Wash. 5/16" Scr.*		56	754-0136		V-Belt 21/32 x 31" Lg. (For Transmission Pulley)	
20	742-0118		15 inch Blade		57	756-0174		Split Transmission Pulley .50 I.D.	
21	710-0117		Hex Hd. Cap Scr. 5/16-24 x 1.00" Lg. H.T.		58	712-0267		Hex Nut 5/16-18 Thd.*	
22	10769		Blade Adapter Kit		59	736-0119		L-Wash. 5/16" Scr.*	
23	710-0459		Hex Hd. Cap Scr. 3/8-24 x 1.50" Lg. H.T.		60	754-0135		V-Belt 21/32 x 25" Lg. (From Eng. Pulley to Var. Sp. Pulley)	
24	10769		Blade Adapter Kit		61	10424		Belt Guard Cup Ass'y. (For Eng. Pulley)	
25	726-0106		Push Nut 1/4" Rod		62	748-0177		Sheave Half	
26	711-0571		Pivot Pin		63	715-0124		Spring Pin Spir. 5/32" Dia. x .62" Lg.	
27	732-0261		Torsion Spring		64	748-0181		Moveable Sheave Ass'y.	
28	11399		Adapter Plate Ass'y.		65	741-0139		Ball Brg. .50 I.D. x 1.38 O.D.	
29	726-0106		Push Nut 1/4" Rod		66	750-0144		Steel Tubing	
30	11574		Chute Deflector Ass'y.		67	750-0146		Spacer .520 I.D. x .692 O.D.	
31	738-0119		Shldr. Scr. .625" Dia. x 1.75 (Axle Bolt)		68	741-0139		Ball Brg. .50 I.D x 1.38 O.D.	
32	712-0116		Hex Ins. L-Nut 3/8-24 Thd.		69	748-0177		Sheave Half	
33	10937		Wheel Pivot Bar		70	736-0217		L-Wash. 3/8" Scr. H.D.	
34	734-0295		5.0 Inch Wheel Ass'y. (Deck)		71	11530		Blade Brake Disc Ass'y.	
35	736-0105		Belleville Wash. .400 I.D. x .88 O.D.		72	12347		30" Deck Ass'y. Complete	
36	10949		Spring Lever Ass'y. with Knob						
37	11236		Wheel Brkt. Ass'y. R.H.						

WHEEL CHART

FRONT WHEEL		REAR WHEEL	
Part. No.	Description	Part. No.	Description
734-0483	Wheel Ass'y.—Comp. Bearing	734-0523	Wheel Ass'y.—Comp.
748-0184		734-0517	Rim with Hub Ass'y.
		734-0298	Tire Only Tubeless 13 x 5.00
		748-0151	Bearing (Sintered)
		734-0255	Air Valve
		—	Hub Part of Rim
		734-0249	Inner Tube (Service Only)

BATTERY WARRANTY CERTIFICATE

The following general warranty policy applies to all batteries sold by IBMA members using this warranty. The nationwide warranty applies only to batteries bearing the IBMA seal of approval.

All new batteries sold by IBMA members carry a warranty against faulty material or workmanship for 90 days from date of purchase. A faulty battery is to be adjusted, repaired or replaced with a new battery by an IBMA member, jobber or dealer only, or the warranty becomes void. An IBMA type battery that is faulty within the 90 day period is to be repaired or replaced with a new battery F.O.B. any IBMA factory supplier or any IBMA authorized dealer, without charge.

Your battery carries a further warranty on a pro-rata adjustment basis covering the number of months determined by the class of service and type of battery. In determining the exchange cost of a new battery, charges will be made for months of service used and the warranty is valid to the original purchaser only.

IBMA approved factory suppliers, as well as all IBMA authorized dealers, are to honor this Warranty. If your IBMA approved battery carries the IBMA seal of approval, this Warranty is to be honored by dealers handling IBMA approved batteries everywhere. (Independent Battery Manufacturers Association, Inc.)

Failures in service that are caused by fire, collision, freezing, abuse, faulty electrical equipment or the use of a battery of a group size smaller or specifications lower than the original battery are not covered by this policy.

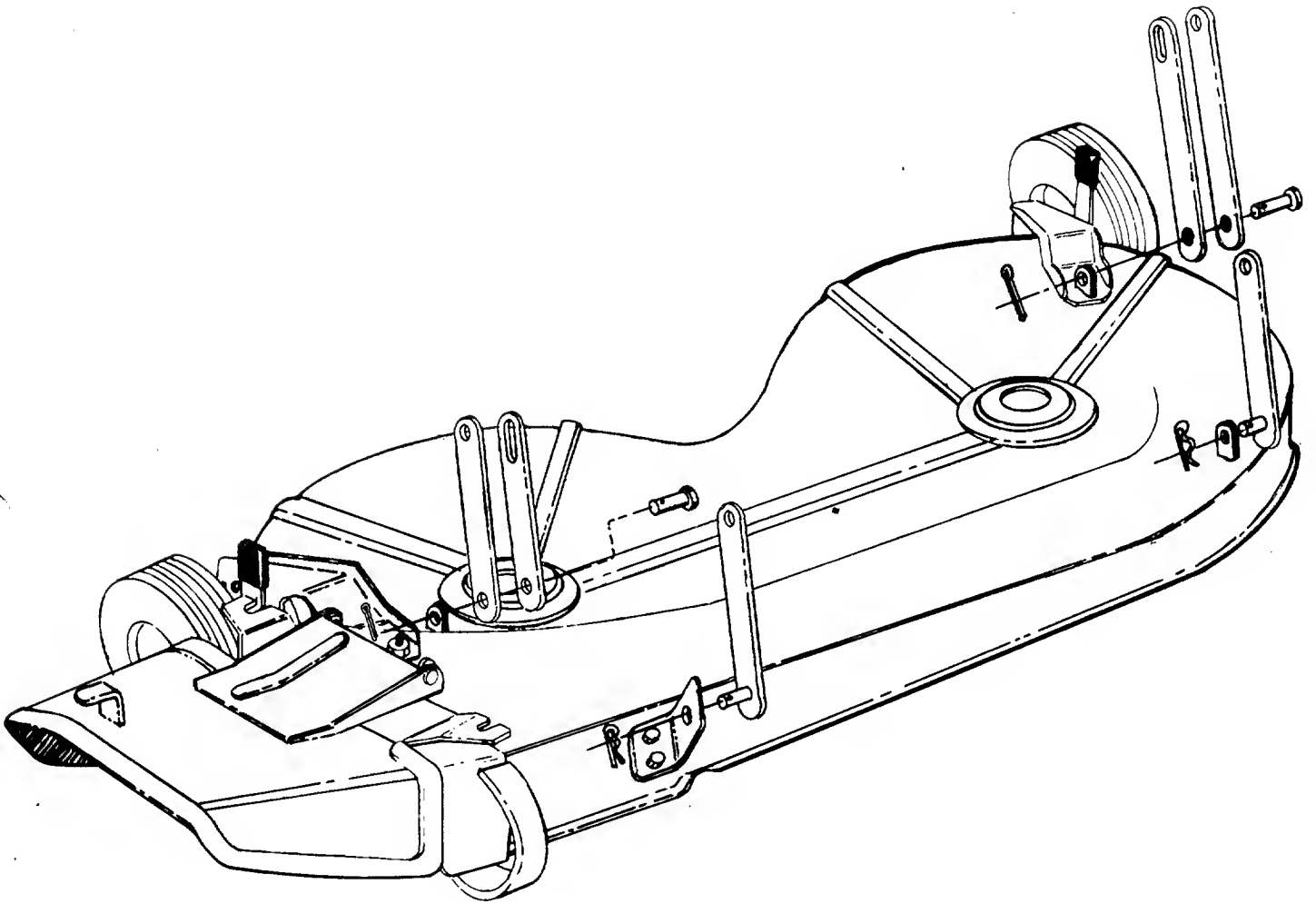
BATTERY MANUFACTURER MEMBERSHIP LIST

ALABAMA Birmingham Southern Bty. Yocam Batteries Mobile Yocam Batteries Montgomery Ebco Battery ALASKA Anchorage Alaska Husky Bty. ARKANSAS Hot Springs Red Diamond Bty. CALIFORNIA Las Angeles Estee Battery Laher Bty. Prod. Oakland Laher Bty. Prod. Sacramento Laher Bty. Prod. Pico Bty. Mfg. Stockton Stockton Battery COLORADO Denver Moore Battery D. C. Washington	Express Bty. Div. Leeth Brothers FLORIDA Fort Lauderdale Florida Bty. Hialeah East Penn Mfg. Jacksonville Tropex Batteries Yocam Batteries Miami Tropex Batteries Yocam Batteries Orlando Yocam Batteries Pensacola Yocam Batteries St. Petersburg Electra Battery Co. Tampa Bilt-Rite Bty. Mfg. Contract Bty. Mfg. DeSoto Bty. & Elec. Tropex Batteries Yocam Batteries GEORGIA Albany Ebco Battery Atlanta Ebco Battery Southern Bty. Yocam Batteries Columbus Ebco Battery	Contract Bty. Mfg. Yocam Batteries ILLINOIS Belleville Bell City Bty. Mfg. Chicago Illinois Bty. Mfg. Universal Bty. Volta Bty. Corp. Pearia Red Diamond Bty. INDIANA Muncie Stout Storage Bty. IOWA Corydan Voltmaster Council Bluffs Reliance Bty. Prod. Des Moines Voltmaster KANSAS Kansas City American Batteries Contract Bty. Mfg. KENTUCKY Whitesburg Electro-Lite Bty. LOUISIANA New Orleans Central Bty. Reliable Bty.	Shreveport Central Bty. MARYLAND Baltimore East Penn Mfg. MASSACHUSETTS Watertown Atlantic Bty. MICHIGAN Detroit Batteries Mfg. Flint ABC Batteries Holly Detroit Battery Madison Heights C & W Lektra Warren G & M Battery MINNESOTA St. Paul Standard Storage Bty. MISSISSIPPI Florence Contract Bty. Mfg. Jackson Central Bty. New Albany Laher Bty. Prod. MISSOURI Japlin Lead Products	Maryland Heights Electro Bty. Mfg. Sikeston Electro Bty. NEW JERSEY Atlantic City Landis Batt. Bty. NEW MEXICO Albuquerque Sandia Bty. Mfg. NEW YORK Buffala East Penn Mfg. Lockport Great Lakes Battery NORTH CAROLINA Charlotte Yocam Batteries Thamasville East Penn Mfg. OHIO Akron Crawn Battery Cincinnati Moore Battery Cleveland Crown Battery New Castle Bty. Calumbus Crawn Battery Fremant Crown Battery	OREGON Beaverton Western Bty., Inc. Portland Laher Bty. Prod. PENNSYLVANIA Altoona East Penn Mfg. Erie New Castle Bty. Lancaster Lancaster Bty. Lyan Station East Penn Mfg. New Castle New Castle Bty. PHILADELPHIA East Penn Mfg. Pittsburgh Simon Bty. & Res. Geidel Bty. Div. RHODE ISLAND Providence Pilof Mfg., Inc. SOUTH CAROLINA Columbia Yocam Batteries TENNESSEE Chattanooga Electro-Lite Bty. Knoxville Southern Bty.	Memphis Central Battery Laher Bty. Prod. Southern Bty. Nashville Electro-Lite Bty. Southern Bty. TEXAS Dallas Continental Bty. Reliable Battery El Paso El Paso Bty. Houston Texford Bty. Co. Reliable Battery San Antonio Reliable Battery UTAH Salt Lake City Laher Bty. Prod. VIRGINIA Arlington Express Bty. Div. Leeth Bros. Lynchburg Hydrate Battery WASHINGTON Seattle Laher Bty. Prod. Spokane Laher Bty. Prod. CANADA Vancouver, B. C. Industrial Bty. & Supply
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DECK LINKAGE

NOTE

Refer to illustration below for proper deck link hook-up. If the deck is removed for any reason use the illustration below for correct assembly.



PARTS INFORMATION

DEFECTIVE OR MISSING PARTS must be reported to the factory immediately. Such claims must include your model number and date of purchase.

POWER EQUIPMENT PARTS AND SERVICE

Parts and service for all MTD manufactured power equipment are available through the authorized service firms listed below. All orders should specify the model number of your unit, parts numbers, description of parts and the quantity of each part required.

A 1 Engine & Mower Co.

327 East 9th Street
Salt Lake City, Utah 84102

Auto Electric & Carburetor Co.

2525 4th Avenue, S.
P. O. Box 1948
Birmingham, Alabama 35233

Automotive Equipment Service Co.

3117 Holmes Street
Kansas City, Missouri 64109

Bailey's Rebuild Inc.

1325 E. Madison Street
Seattle Washington 98102

Bleckie, Inc.

7900 Lorain Avenue
Cleveland, Ohio 44102

Brown Equipment Distributor Inc.

110 Beech Street
Corydon, Indiana 47112

Bullard Supply

2409 Commerce Street
Houston, Texas 77003

Catto & Putty, Inc.

P. O. Box 2408
510 Soledad Street
San Antonio, Texas 78205

Centar Supply Company

6867 New Hampshire Avenue
Takoma Park, Maryland 20012

Dixie Sales Company

P. O. Box 1408
327 Battleground Avenue
Greensboro, North Carolina 27402

East Point Cycle & Key Shop

1617 Whiteway
East Point, Georgia 30044

Gamble Distributors

West End Avenue
Carthage, New York 13619

Garden Equipment Co., Inc.

6600 Cherry Avenue
Long Beach, California 90805

Gardenville Supply, Inc.

Pipersville, Pennsylvania 18947

Henry W. O'Neil & Assoc., Inc.

410 North Goodman Street
Rochester, New York 14609

Henzler, Inc.

2015 Lemay Ferry Road
St. Louis, Missouri 63125

Kenton Supply

8216 North Denver Avenue
Portland, Oregon 97217

Kimber's Inc.

115 W. Geddes St.
Syracuse, New York 13204

Marr Brothers

423 E. Jefferson
Dallas, Texas 75203

McClure Lawn & Garden Supply

1114 Lexington Avenue
Mansfield, Ohio 44907

Memphis Cycle & Supply Co.

421 Monroe Avenue
Memphis Tennessee 38103

Morton B. Collins Co.

300 Birnie Avenue
Springfield, Massachusetts 01107

Mox-All of Florida, Inc.

365 Greco Avenue
Coral Gables, Florida 33146

National Central

687 Seville Rd.
Wadsworth, Ohio 44281

BRIGGS & STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

Briggs & Stratton, Tecumseh and Peerless parts and service should be handled by your nearest authorized engine service firm. Check the yellow pages of your telephone directory under the listing *Engines — Gasoline*, Briggs & Stratton or Tecumseh Lauson — Power Products.

Parts & Sales Inc.

2101 Industrial Pkwy.
Elkhart, Indiana 46514

Power Equipment Distributor

36463 So. Gratiot Avenue
Mt. Clemens, Michigan 48043

Power Lawn & Garden Equip. Co.

2551-2571 J. F. Kennedy Road
Dubuque, Iowa 52001

Radco Distributors

2403 Market Street
P. O. Box 3216
Jacksonville, Florida 32202

Raub Supply Company

James & Mulberry Sts.
Lancaster, Pennsylvania 17604

Richmond Battery & Ignition

P. O. Box 25369 — 957 Myers St.
Richmond, Virginia 23260

R. P. W., Inc.

623 S. 16th Street
Omaha, Nebraska 68102

Smith Hardware Company

515 N. George Street
Goldsboro, North Carolina 27530

South Denver Lawn Equip. Co.

527 West Evans
Denver, Colorado 80223

Suhren Engine

8330 Earhart Blvd.
New Orleans, Louisiana 70118

Sutton's Lawn Mower Shop

Route 4, Box 343
North Little Rock, Arkansas 72117

Woodson Sales & Service

1702 North Sylvania
Ft. Worth, Texas 76111

WARRANTY PARTS AND SERVICE POLICY

The purpose of warranty is to protect the customer from defects in workmanship and materials, defects which are NOT detected at the time of manufacture. It does not provide for the unlimited and unrestricted replacement of parts. Use and maintenance are the responsibility of the customer. The manufacturer cannot assume responsibility for conditions over which it has no control. Simply put, if it's the manufacturer's fault, it's the manufacturer's responsibility; if it's the customer's fault, it's the customer's responsibility.

CLAIMS AGAINST THE MANUFACTURER'S WARRANTY INCLUDES

1. Replacement of Missing Parts on new equipment.
2. Replacement of Defective Parts within the warranty period.
3. Repair of Defects within the warranty period.

All claims MUST be substantiated with the following information:

1. Model Number of unit involved.
2. Date unit was purchased or first put into service.
3. Date of failure.
4. Nature of failure.